# **SAP Business One**





**PUBLIC** 

# **Administrator's Guide**

**Applicable Release:** 

**SAP Business One 8.8** 

**All Countries** 

**English** 

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# Introduction

The Administrator's Guide for SAP Business One provides a central point for the technical implementation of SAP Business One. Use this guide for reference and instructions before and during the implementation project.



This guide covers only the installation of SAP Business One and its add-ons.

For information on the installation of remote support platform for SAP Business One, see the Administrator's Guide to Remote Support Platform for SAP Business One document under . . . : \Documentation \ on the SAP Business One product DVD or on the dedicated landing page in SAP Channel Partner Portal at http://channel.sap.com/sbo/rsp.

For information about installing the Crystal Reports software, version for the SAP Business One application, see <u>Installing Crystal Reports for SAP Business One</u>.



#### Note

For the latest information about installation issues that may not appear in this guide, see SAP Note 1321543.



#### CAUTION

If you have the Crystal Reports integration add-on installed with any of the SAP Business One 2007 or 2005 releases, you must first uninstall the add-on before proceeding to the installation of the Crystal Reports software.

The Administrator's Guide consists of the following main sections:

Prerequisites

This section provides prerequisites to check before you proceed to the installation.

Installing SAP Business One

This section provides the process flow and instructions for installing and setting up SAP Business One and for removing the application.

The three widely-used installation scenarios are introduced in this section. They are as follows:

- Server-client installation
- Standalone installation
- Remote installation
- Performing Post-Installation Activities

This section provides instructions for configuring the SAP Business One components after the installation.

The activities include the following:

- Configuring services
- Assigning SAP add-ons
- Installing Microsoft Outlook integration standalone version
- Setting up dot matrix printers
- Upgrading SAP Business One



6

This section provides instructions for upgrading SAP Business One. You can use either of the following two methods to upgrade a previous installation of SAP Business One to SAP Business One 8.8:

Upgrading with the SAP Business One upgrade wizard

You can use a new tool, the SAP Business One upgrade wizard, to guide you through the upgrade process of the server components and the client files. After the wizard finishes successfully, you can log on to SAP Business One and upgrade with your client application workstation.

Upgrading directly from the upgrade folders

SAP Business One 8.8 also enables direct upgrading of some components from the upgrade folder files. This option is suggested for advanced users only.



#### Note

For more information about the upgrade package, see <u>Downloading the Upgrade Package</u>.

• Performing Database Maintenance

This section assists you with the following routine operations of SAP Business One and its database:

- Database server administration, including the following:
  - Starting and stopping database services
  - Performing weekly tasks
  - Performing regular tasks
  - Performing backups
  - Performing restore functions
- Working with Data Transfer Workbench
- Getting Support

Introduces the means by which you can get support from SAP. These include using the following:

- SAP Business One online help documentation
- SAP Notes
- Support desk
- Managing Security in SAP Business One

This section explains how to implement a security policy and provides recommendations for meeting the security demands of SAP Business One. As of SAP Business One 8.8, the use of more advanced encryption algorithms is supported.

The logon process for end users is simplified, requiring authentication using SAP Business One user ID and password only.

To find out how to access other information about SAP Business One, see the Easy Start Guide on the product DVD.



# 1.1. Application Components Overview

This section includes a description of the important software components of SAP Business One and how they are used by SAP Business One's business processes.

SAP Business One is a client-server application and comprises the fat client and database server. The SAP Business One database only stores data and does not use triggers. However it does use views, especially for reporting and upgrade purposes.

The features and properties of SAP Business One server are as follows:

- One database server holds all company databases and the SBO-COMMON database. The company database is used to store all business data and transactional data. Customers can create several company databases. SBO-COMMON is the central database that holds system data, SAP Business One version information and upgrade information. SBO-COMMON does not store any business data.
- SAP Business One can run on Windows Terminal Services or Citrix Server and can run in several instances for different sessions.
- The license server can be on a different computer from the main server.

The server architecture is shown below in Figure 1.

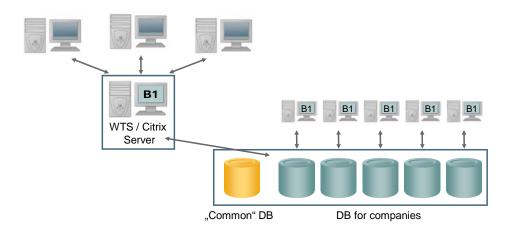


Figure 1: SAP Business One Server Architecture

- Mandatory SAP Business One server components
  - License server of SAP Business One server tools
     The license server works with Microsoft SQL Server to maintain the user sessions and purchased licenses.
  - SAP Business One server

Includes the database server with the SBO-COMMON database and company databases, as well as a server shared folder.



- Optional SAP Business One server components:
  - Other services of SAP Business One server tools
  - Server of remote support platform for SAP Business One
  - Microsoft Outlook Integration Server Add-On

The SAP Business One client is basically the application executable. The client computer holds SDK components used by add-on solutions.

- Data interface: a COM-based API and an applicative dll (OBSever.dll) file that enables add-ons to access and use SAP Business One business objects.
- UI interface: a COM-based API which is connected to the running application and enables addons to perform runtime manipulation and enhancement of the SAP Business One GUI and its flow.

The client architecture is shown below in Figure 2.

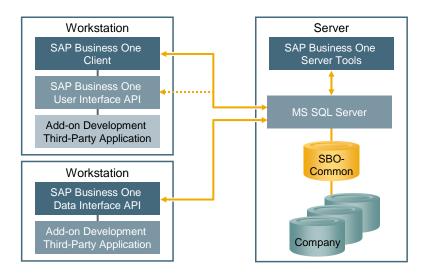


Figure 2: SAP Business One Client Architecture



# 2. Prerequisites

- For information on hardware and software requirements, see the following:
  - SAP Business One System Requirements, which you can find in the SAP Business One documentation resource center in SAP Channel Partner Portal at <a href="http://channel.sap.com/sbo/documentation">http://channel.sap.com/sbo/documentation</a>.
  - Platform requirements. You can find the information at http://channel.sap.com/sbo/platformshttp://channel.sap.com/sbo/platforms.
- If you already have the Crystal Reports software installed on your computer, do one of the following:
  - If you have Crystal Reports 2008 SP1 installed, follow the procedures for installing the Crystal Reports version for SAP Business One, as described in the section: <u>Installing</u> <u>Crystal Reports for SAP Business One.</u>
  - o If you have Crystal Reports 2008 SP0 installed:
    - i. Uninstall Crystal Reports 2008 SP0.
    - ii. Follow the installation procedures for installing the Crystal Reports version for SAP Business One, as described in the section: <u>Installing Crystal Reports for</u> SAP Business One.
  - If you have a version of the Crystal Reports software installed that is earlier than Crystal Reports 2008, you do not need to uninstall it before proceeding to install the Crystal Reports version for SAP Business One.
  - If you have the Crystal Reports integration add-on installed with any of the SAP Business One 2007 or 2005 releases, you must first uninstall the add-on before proceeding to the installation of Crystal Reports version for SAP Business One.
- You have Microsoft SQL Server 2005 or 2008 installed on your computer.



If you do not have Microsoft SQL Server 2005 or 2008 already installed on your computer, you can install either one during the installation process if you have the Microsoft SQL Server 2005 or 2008 DVD.

- To properly use the SAP Business One Fixed Assets add-on on Microsoft SQL Server 2005, make sure that you have Microsoft SQL Server 2005 SP3 installed.
- In the SAP Business One server installation and upgrade procedures, you have the option of installing remote support platform for SAP Business One. For more information, see the Administrator's Guide to Remote Support Platform for SAP Business One document under ...:\Documentation\ on the SAP Business One product DVD or on the dedicated landing page in SAP Channel Partner Portal at <a href="http://channel.sap.com/sbo/rsp">http://channel.sap.com/sbo/rsp</a>.



# 2.1. Constraints

You can run the SAP Business One product version for 31 days without a license. To continue working with the application after 31 days, you must install a valid license key assigned by SAP.



If you are a partner, for more information about installing the license key, see *License Guide SAP Business One 8.8* in SAP Channel Partner Portal at <a href="http://channel.sap.com/sbo/documentation">http://channel.sap.com/sbo/documentation</a>.

Customers can find the document in SAP Business One Customer Portal at http://service.sap.com/smb/sbocustomer/documentation.

The demo databases provided are not for productive use. The application supports 40 localizations in its demo databases.



For more information, see the online help for SAP Business One.

# 2.2. User Privileges

The following table summarizes the requirements and recommendations for the group setup of the displayed operating system:

Operating System Process	Windows XP, Windows Vista		
	Recommended	Minimum	
Client installation	Administrator	Administrator	
Client upgrade	Administrator	Administrator	
Runtime	Users	Users	

SAP Business One supports the Microsoft Windows XP and Windows Vista operating systems in a server configuration environment for standalone systems and clients.

# 2.3. Installation Checklist

To perform a correct and complete installation, do the following:

- 1. Install the Crystal Reports version for SAP Business One.
- 2. Install Microsoft SQL Server 2005 or Microsoft SQL Server 2008.
- 3. Install the SAP Business One server tools.
- 4. Install the SAP Business One server components.
- 5. Install the SAP Business One client application on workstations.
- 6. Install optional components (add-ons, SDK).

The precise sequence of these steps depends on your installation scenario. For more information, see the relevant sections under Performing SAP Business One Installations on Client Computers.



# 3. Installing SAP Business One

Based on common business scenarios, the three widely used installation scenarios for SAP Business One are as follows:

- Server-client mode: SAP Business One server and server tools are installed on one computer;
   one or more clients are installed on other computers.
- Standalone mode: For a central SAP Business One installation, server components and clients are installed on one computer.
- Remote mode: For a remote server-client SAP Business One installation, SAP Business One is installed on a terminal server or in a Citrix environment.



For more installation information about the Crystal Reports version for the SAP Business One, see <u>Installing Crystal Reports for SAP Business One</u>.

# 3.1. Scenarios

You can install SAP Business One using one of the following scenarios:

Server-client mode:

Server-client mode is considered best practice for an SAP Business One installation. In this mode, you install the following on the server computer:

- a. SAP Business One server tools
- b. SAP Business One server
- c. Microsoft Outlook integration add-on

You install the following on client computers:

- a. SAP Business One client
- b. Optional client components, which include:
  - SBO Mailer and fax service
  - Software Development Kit (SDK)
  - Data Transfer Workbench
  - Microsoft Outlook integration add-on standalone version
- Standalone mode:

You install all the server and client components on one computer. They are as follows:

- SAP Business One server tools
- SAP Business One server
- Microsoft Outlook integration server installer add-on
- SAP Business One client
- Optional client components



· Remote mode:

This mode enables logging on to SAP Business One from a remote computer.

- a. You install the following on a remote server computer:
  - i. SAP Business One server tools
  - ii. SAP Business One server components
  - iii. Microsoft Outlook integration add-on
  - iv. SAP Business One client
  - v. Optional client components
  - vi. Microsoft Windows server terminal services
- b. You install Microsoft terminal services client on terminal client computers.

# 3.2. Installing SAP Business One in Server-Client Mode

In this scenario, you perform the server computer installations and the client computer installations separately, as shown in Figure 3 below:

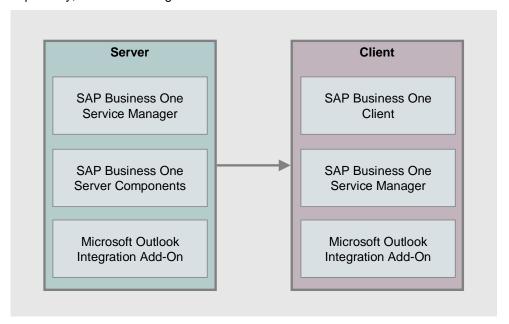


Figure 3: Server-Client Landscape

# 3.2.1.Performing an SAP Business One Installation on Server Computers

You need to perform the following actions on the server computer:

- 1. Install SAP Business One server tools.
- 2. Install SAP Business One server components.

Server components include the following:

- SAP Business One server application
- Microsoft Outlook integration server installer add-on



3. Register the add-ons.

The installation of the server components automatically registers all SAP add-ons on the server computer. There is no need for additional registering.

The SAP Business One server application automatically registers SAP add-ons to all companies on the server. Add-ons appear in the Available Add-Ons list in the Add-On Administration window.

For more information, see Assigning SAP Business One Add-Ons.



# **A** CAUTION

The SAP Business One installation creates a new SQL user and password. Do not modify or delete this user ID or password. They are essential for the correct operation of the SAP Business One application.

4. Change the sa login password or create an alternative user.

For security reasons, we recommend that you either change the sa logon password right after installing SAP Business One, or as a safer option, create a user to serve as a substitute for the sa user. For more information, see Database Authentication.

## **Prerequisites**

- The installation computer complies with all hardware and software requirements, as detailed in SAP Business One System Requirements, available at
  - http://channel.sap.com/sbo/documentation.
- You have administrator rights on the computer on which you are performing the installation.



# 3.2.1.1. Installing Microsoft SQL Server 2005 or Microsoft SQL Server 2008

#### **Procedure**

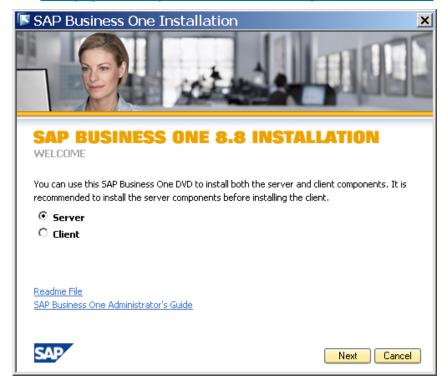
1. Insert the SAP Business One product DVD in the DVD drive.

The installation program appears automatically. If the DVD does not launch the installation program, navigate to the DVD root folder and double-click the *Autorun.exe* file.

The SAP Business One Installation window appears.

2. In the installation window, select the Server radio button, and choose the Next button.

If you have already installed Microsoft SQL Server 2005 or Microsoft SQL Server 2008, proceed with Changing the sa Login Password and Creating an Alternative User.



- If Microsoft SQL Server 2005 or Microsoft SQL Server 2008 cannot be detected, the Microsoft SQL Server 2005 or Microsoft SQL Server 2008 installation window appears. Do one of the following:
  - To install Microsoft SQL Server 2005 or Microsoft SQL Server 2008 on the computer, select the *Install Microsoft SQL Server 2005 or 2008 on this machine* checkbox on this computer and continue with step 4.



Make sure that the name of the computer on which you are installing Microsoft SQL Server does not contain any of the following special characters:

- &
- /
- >
- . "
- .



Make sure that you align your computer name with the name format of your license server. To check or correct your computer name, proceed as follows:

- i. Choose  $Start \rightarrow Control\ Panel \rightarrow System$ .
- ii. In the System Properties window, select the Computer Name tab.
- iii. In the Computer name field, check the computer name.
- iv. To correct the computer name, choose the Change button.
- v. In the *Computer Name/Domain Changes* window, specify a new name for the computer and choose the *OK* button.
- If you already have Microsoft SQL Server installed, to continue with the SAP Business
  One installation, select the checkbox: If you are sure that Microsoft SQL Server 2005 or
  2008 has been installed, continue installing SAP Business One. Continue with step 3 of
  Installing the Server Tools.



- 4. In the Microsoft SQL Server Installation window, do the following:
  - Insert the Microsoft SQL Server 2005 or Microsoft SQL Server 2008 DVD in the DVD drive.
  - b. In the *Installation Folder* field, specify the folder in which you want to install the Microsoft SQL Server. To change the default installation directory, choose the *Browse* button.



c. To start the silent installation, choose the *Install* button.



- 5. In the message dialog box, choose the OK button.
- 6. In the *Choose file* window, locate the Microsoft SQL Server 2005 or 2008 installation file (setup.exe).

Choose the Open button.

The setup begins a silent installation of SQL Server components and applies the default values as shown in the table below.



If you do not have Microsoft .NET Framework 3.5 installed on your computer, it is installed as part of the installation process during the silent installation of Microsoft SQL 2008. This requires restarting your computer before you can proceed with the Microsoft SQL 2008 installation.

After you restart your computer, you need to start the installation procedure from the beginning (step 1). In step 6, in the *Choose file* window, locate the Microsoft SQL Server 2008 installation file (setup.exe) and proceed with the installation procedure.



# Note

Due to the following limitation in Windows Vista and Windows Server 2008, if you are working with either of these, the following applies:

If you are installing Microsoft SQL Server 2005 or 2008, at the end of the silent installation, the Windows Desktop may disappear, because of the Run as Administrator permissions settings.

If the Windows Desktop disappears, log off from Windows after the Microsoft SQL Server installation, then log back on and start the SAP Business One installation process from step 1.





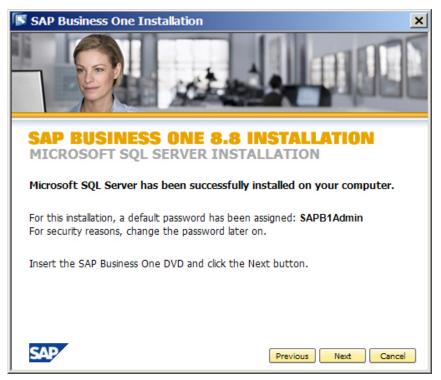
If you did not install Microsoft SQL Server 2005 or Microsoft SQL Server 2008 through the SAP Business One installation, make sure that you enter the connection settings that match the setup of the SAP Business One application, as shown in the table below.

Window Name	Fields		
Registration	Name – copied from the local system		
Information	Company – copied from the local system		
	CDKey – copied from the installation DVD		
Components to Install	SQL Server Database Service		
	Workstation Components, Books Online, and development tools		
Instance Name	MSSQLServer		
	Note		
	Make sure that in the TCP/IP protocol properties of your SQL Server instance, the TCP Port field is set to 1433		
Service Account	Use the built-in system account – Local System		
	Start the services at the end of the setup – SQL Server		
Authentication Mode	Mixed Mode (Windows Authentication and SQL Server Authentication)		
	Password: SAPB1Admin		
Collation Settings	SQL collations – Dictionary order case-insensitive, for use with 1252 Character set, Accent Sensitive (SQL_Latin1_General_CP1_CI_AS).		
	Note		
	If you are installing SQL Server manually, in the <i>Collation Settings</i> window, select <i>Latin1_General</i> and <i>AS</i> .		
Error and Usage Report Settings	None marked		

7. When Microsoft SQL Server 2005 or Microsoft SQL Server 2008 is installed successfully, and you can see the following confirmation window, you can remove the Microsoft SQL Server 2005 or 2008 DVD.



To continue with the SAP Business One installation, choose the *Next* button.



# 3.2.1.2. Changing the sa Login Password and Creating an Alternative User

For security reasons, we recommend that you change the sa logon password right after installing SAP Business One, or create an alternative user to the sa user, which is the safest option. For more information, see <u>Database Authentication</u>.

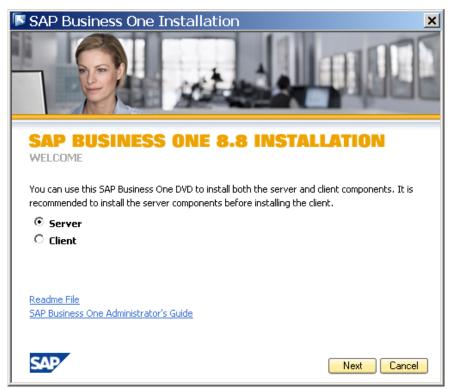


# 3.2.1.3. Installing the Server Tools

1. Reinsert the SAP Business One product DVD in the DVD drive.

The installation program appears automatically. If the DVD does not launch the installation program, navigate to the DVD root folder and double-click the *Autorun.exe* file.

2. From the installation window, select the Server radio button, and choose the Next button.



- 3. In the Server Components window, do one of the following:
  - To automatically install all required server components in one batch, on the same computer, select the *Full* radio button.
  - To install server components individually, select the Custom radio button and select the option that you want to install.



## Recommendation

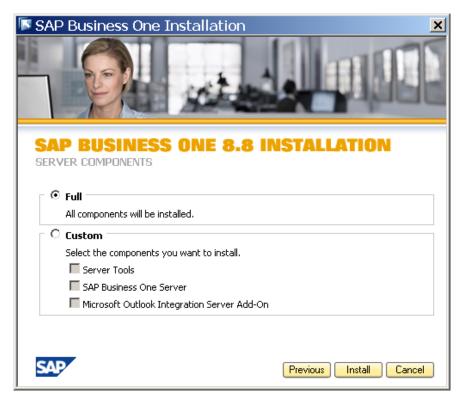
We recommend that you select the *Custom* option, because this option lets you view all available server components. You can then select the components that you want to install on different computers.

Choose the Install button. The InstallShield wizard begins running.

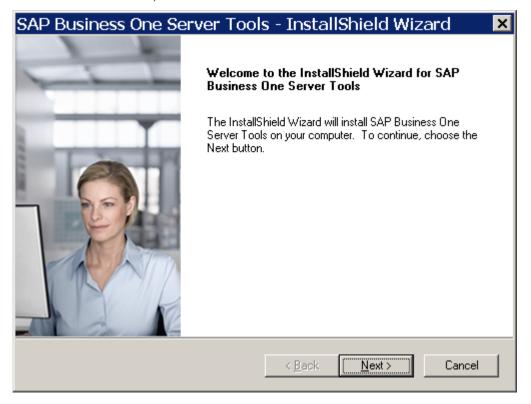


It may take some time for the InstallShield wizard to appear. While you are waiting for the wizard to load, do not activate any other window.



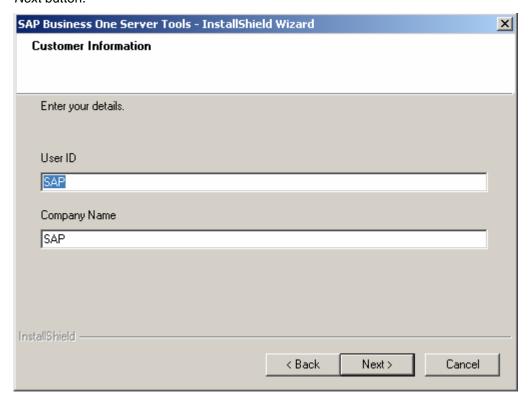


4. In the Welcome window, choose the Next button.





5. In the *Customer Information* window, specify your user ID and company name and choose the *Next* button.

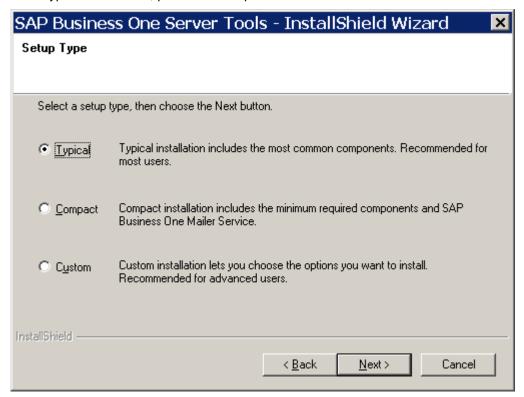


- 6. In the Setup Type window, do one of the following:
  - To view all the options and choose the ones you want to install, select the Custom radio button.
  - o To perform a typical installation, select the *Typical* radio button.

Choose the Next button.



For a typical installation, proceed to Step 9.

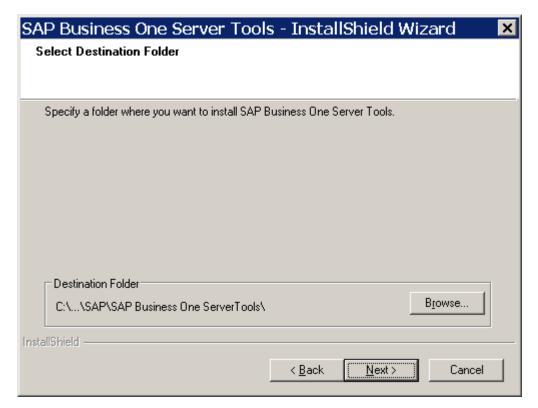


- 7. In the Select Destination Folder window, do one of the following:
  - To accept the default installation location for SAP Business One server components, choose the *Next* button.
  - To select a different location, choose the *Browse* button, select a directory, and choose the *Next* button.



To install the server components and all additional components, use the standard directory (..\SAP\SAP Business One Server). If you change the path, do not change the directory names. This rule also applies to the installation of the server components and the client components.





8. In the *Select Features* window, select the components you want to install and deselect the features you do not want to install.



To use any component of server tools, you have to operate through SAP Business One Service Manager. Hence, the service manager checkbox is automatically selected and cannot be reset.



Choose the Next button.



9. In the *Define Site User Password* window, specify the site user password, and then choose the *Next* button.

The site user ID serves as site-level authentication for performing the following activities:

- Configuring database credentials
- o Creating companies
- Configuring services
- Registering add-ons
- Updating read-only user passwords

A site user password is required for authentication against the license server during the following situations:

- Configuring services via SAP Business One Service Manager
- Installing SAP Business One servers
- Creating new companies on SAP Business One clients



#### Note

To configure any service in the service manager after installation, you have to specify the site user password only on the first logon.

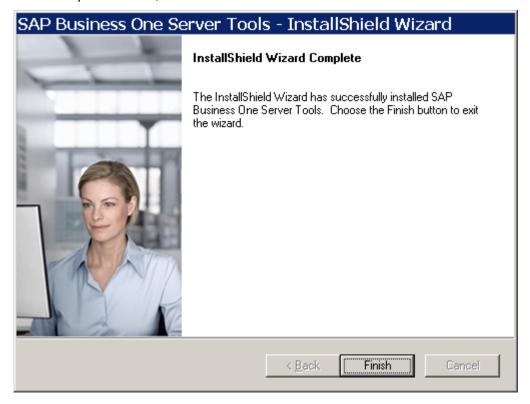


## Recommendation

For security reasons, you should set a strong site user password, at least as strong as that defined in your company's password policy, and change it frequently. For more information, see <u>Managing Security in SAP Business One</u>.



10. In the Complete window, choose the Finish button.



# 3.2.1.4. Installing the SAP Business One Server

### **Prerequisite**

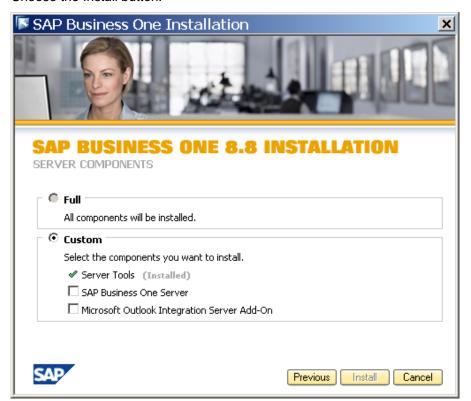
- You have your computer's name or IP address available.
  - o To check your computer's full name, do the following:
    - i. In Windows, on the *Desktop*, right-click the *My Computer* icon and select *Properties*.
      - The name of your computer appears in the *System Properties* window, on the *Computer Name* tab, next to the *Full computer name* field.
    - ii. Keep a record of the displayed computer name.
  - To check your computer's IP address, do the following:
    - i. In Windows, choose  $Start \rightarrow Run$ .
    - ii. In the *Open* field of the *Run* window, enter cmd and press Enter.
    - iii. In the cmd.exe window, enter ipconfig and press Enter.
    - iv. Keep a record of the displayed IP address.
- If the SAP Business One license server is installed on a different computer, make sure that the license server is running when you are installing the SAP Business One server. For information about starting up your license server, see <a href="Configuring the License Manager">Configuring the License Manager</a>.



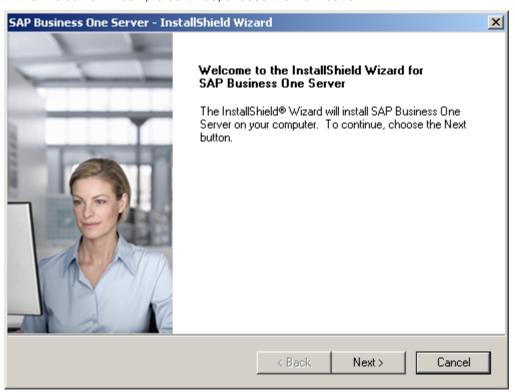
#### **Procedure**

1. In the *Server Components* window, you can see that the installed *Server Tools* option is marked as installed now. To continue with the SAP Business One server installation, select the *SAP Business One Server* checkbox.

Choose the Install button.

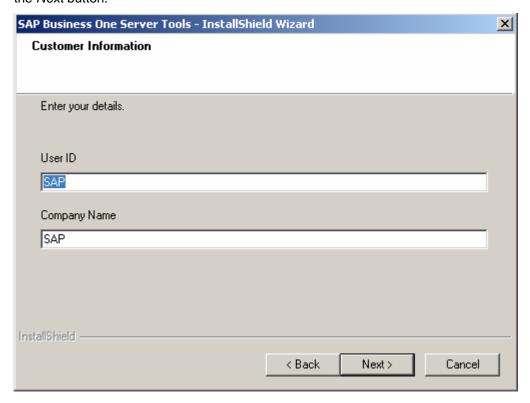


2. In the Welcome window, to continue, choose the Next button.





3. In the *Customer Information* window, specify your user ID and company name, and then choose the *Next* button.



4. If your license server is installed on a different computer, the *License Authentication* window appears; otherwise, proceed to step 5.

In the *License Authentication* window, specify the license server information you defined in the server tools installation.

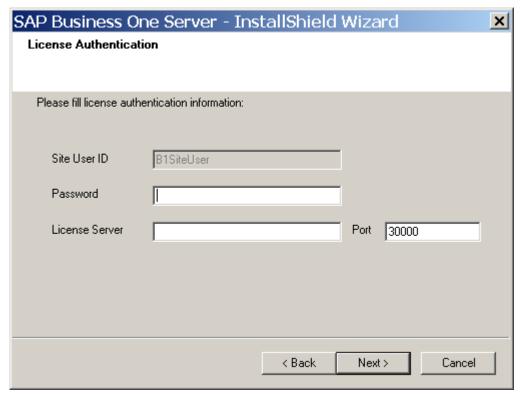
Choose the Next button.

If you have problems specifying the license server address, use the IP address of the license server.



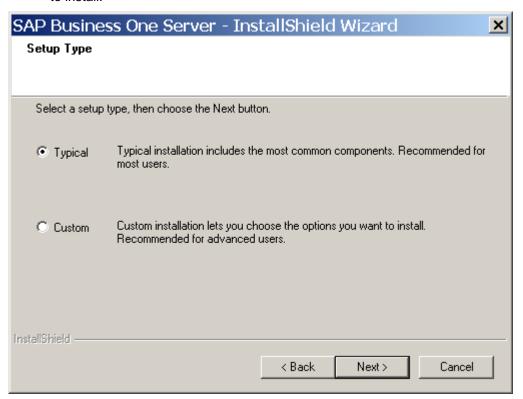


Use standard ports. Changing the ports can affect the installation of the components that follows this installation. This rule applies to the installation of all the server and client components.



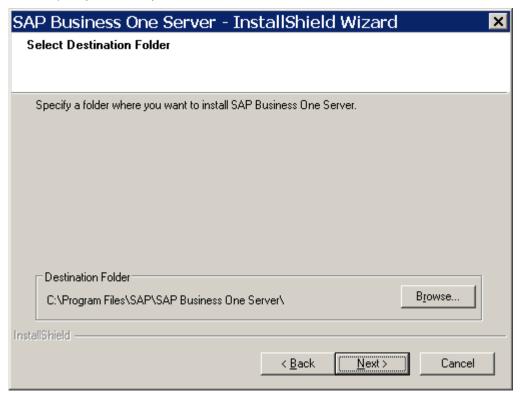


- 5. In the *Setup Type* window, select a setup type from those listed below, and then choose the *Next* button.
  - Typical: lets you install all components. If you select the Typical radio button, proceed to step 7.
  - Custom: lets you view all the installation options so you can choose the options you want to install.





- 6. In the Select Destination Folder window, do one of the following:
  - To accept the default installation location for SAP Business One server components, choose the *Next* button.
  - To select a different location, choose the *Browse* button. In the *Choose Folder* window, specify a directory, and then choose the *Next* button.





7. In the *Select Database Server Type* window, in the *Server Type* dropdown list, select the database type installed on the server computer and choose the *Next* button.



- 8. In the *Database Server Logon* window, specify the following database server connection settings.
  - o Server Name Specify the server computer name.



#### Note

If specifying a computer name does not work, try the IP address of the server computer. Be sure the format is consistent with what you have defined for the license server.



Make sure that in the <code>Server Name</code> field, the name of the computer on which you installed Microsoft SQL Server does not contain special characters, such as: &, <, >, ", or ", "

To check or correct your computer name, proceed as follows:

- i. Choose  $Start \rightarrow Control\ Panel \rightarrow System$ .
- ii. In the System Properties window, select the Computer Name tab.
- iii. In the Computer name field, check the computer name.
- iv. To correct the computer name, choose the Change button.
- v. In the *Computer Name/Domain Changes* window, specify a new name for the computer and choose the *OK* button.
- Database Username Enter the user name you defined during the installation of Microsoft SQL Server 2005 or Microsoft SQL Server 2008.



Make sure you do not use the following entries in the *Database Username* field:

- localhost
- (local)
- •
- **127.0.0.1**
- Database User ID specify the user ID to access the Microsoft SQL server.
- Database Password specify the password to access the Microsoft SQL server.
   Choose the Next button.



# Note

If you used the SAP Business One silent installation for Microsoft SQL Server, then the default user ID and password values are: sa and SAPBlAdmin (case sensitive).



# Recommendation

After installing SAP Business One, you should change the sa password or create a new database administrator. For more information, see <u>Changing the sa Login Password and Creating an Alternative User.</u>

Check your password and user ID, and make sure that you have installed an SQL Server database server.

If you selected the *Typical* installation option in step 5, proceed to step 10.



- 9. In the Select Features window, select the features you want to install from among the following:
  - System Databases installs the SAP Business One common database (SBO-COMMON).

    This database is visible only at the Microsoft SQL level, not in the list of companies at the application level. It is updated every time you install a new patch or perform an upgrade



to SAP Business One. The default values in the common database are available for every new database that is created.

- Demo Databases installs demonstration databases in the selected localizations.
- Help installs the help database and help files in the selected languages.
- Server Components installs shared network objects.
- SAP Add-ons registers the SAP add-ons on the server computer.



#### Note

If you want to install SAP add-ons, you must select the SAP Add-ons checkbox in the Select Features window. For information, see <u>Assigning SAP Business One Add-Ons</u>.

- remote support platform for SAP Business One installs remote support platform for SAP Business One on the server computer.
  - To install the application, select the checkbox remote support platform for SAP Business One. The installation will be performed by the installation wizard of remote support platform for SAP Business One later on. For more information, see the document Administrator's Guide to Remote Support Platform for SAP Business One in the product DVD or on the dedicated landing page in SAP Channel Partner Portal at http://channel.sap.com/sbo/rsp.



# Note

If the installation of remote support platform for SAP Business One fails, this does not affect the successful installation SAP Business One.

The installation of remote support platform for SAP Business One does not impact SAP Business One business processes. There is no technical dependency between SAP Business One and remote support platform for SAP Business One.

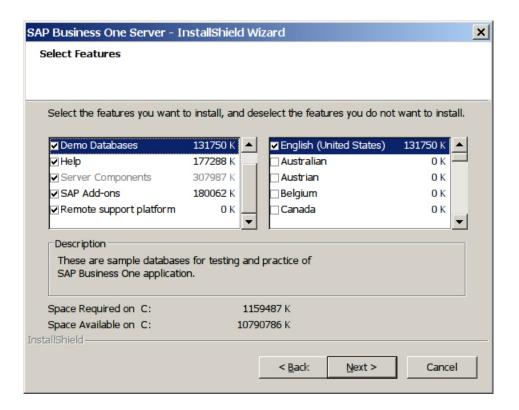
■ To install SAP Business One without installing remote support platform for SAP Business One, make sure that you deselect the checkbox remote support platform for SAP Business One. and then choose the Next button.



#### Note

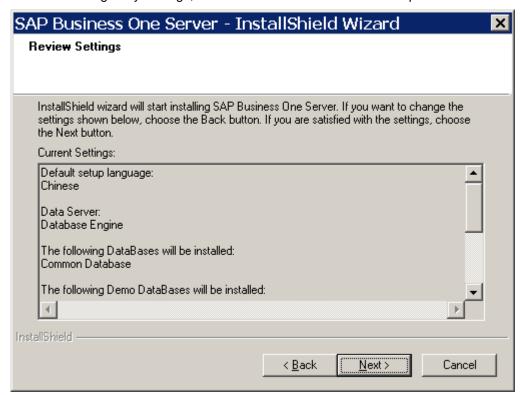
The features you select here depend on your system environment. Therefore, some features may not be available to you.







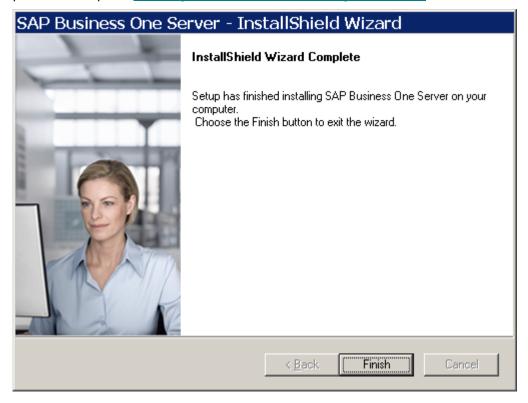
- 10. In the Review Settings window, do one of the following:
  - o To confirm all the settings, choose the *Next* button.
  - To change any settings, choose the Back button to return to previous windows.



- 11. In the *Setup Status* window, the setup wizard begins copying files, which may take several minutes, depending on the number of demo databases you selected for installation and on your computer performance.
- 12. In the Setup Complete window, choose the Finish button.



If you selected the *Typical* installation option in step 5 of the server installation procedure, proceed to step 2 in <u>Installing the Microsoft Outlook Integration Server</u>.



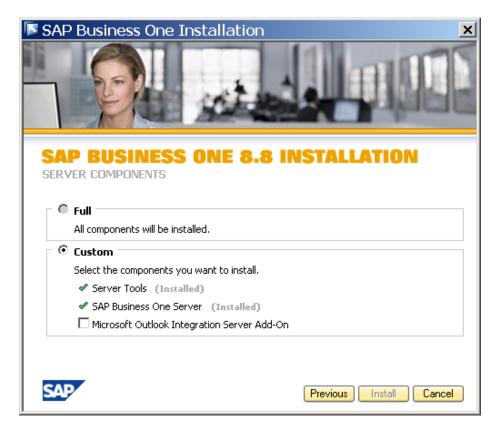
# 3.2.1.5. Installing the Microsoft Outlook Integration Server

This setup installs Microsoft Office templates required for the Microsoft Outlook integration server addon.

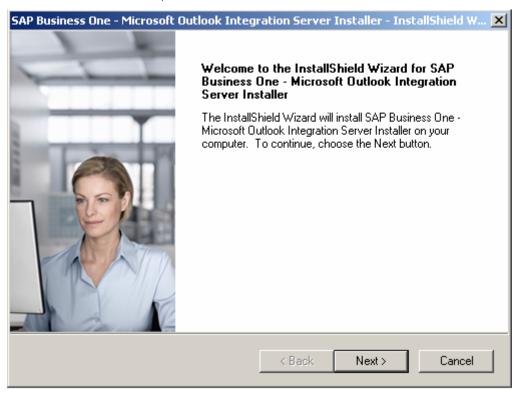
#### **Procedure**

- In the Server Components window, you can see that the Server Tools (Installed) and the SAP Business One Server (Installed) checkboxes are inactive now. To continue with the Microsoft Outlook integration add-on server installation, select the Microsoft Outlook Integration Server Add-On checkbox.
- 2. Choose the Install button.



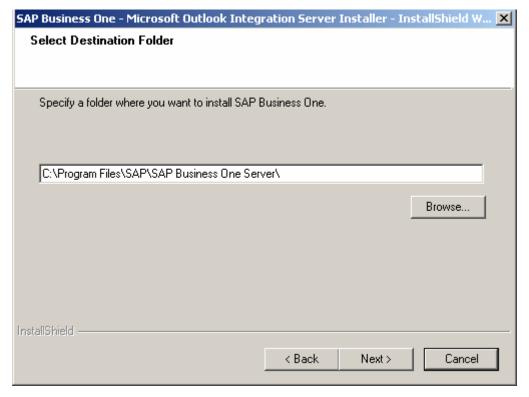


3. In the Welcome window, choose the Next button.

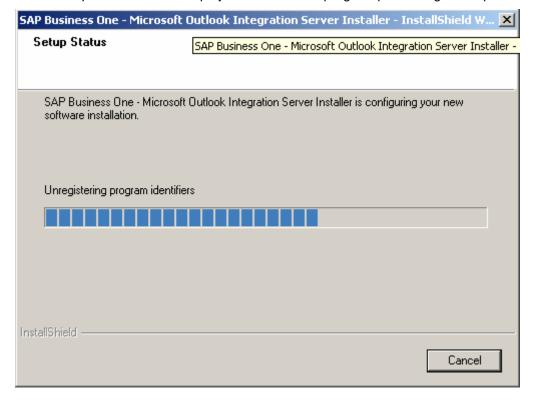


- 4. In the Select Destination Folder window, do one of the following:
  - o To confirm the default installation location, choose the *Next* button.
  - To change the default location, choose the *Browse* button to locate a directory, and then choose the *Next* button.





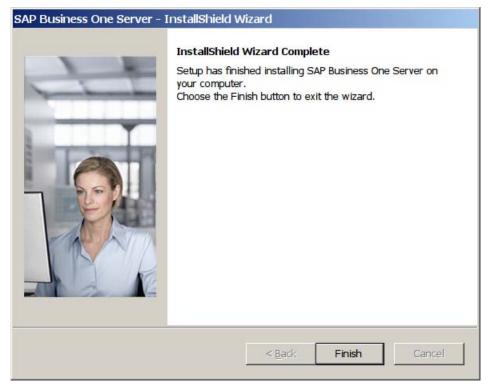
- 5. In the *Review Settings* window, review the settings you have made, and then proceed as follows:
  - o To continue, choose the Next button.
  - o To change the settings, choose the *Back* button to return to the previous steps.
- 6. The Setup Status window displays the installation program performing the required actions.





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7. In the *Complete* window, choose the *Finish* button to exit the wizard. After you have finished the server installation, proceed to <u>Performing SAP Business One Installations on Client Computers</u>.



8. In the Server Components installation summary window, choose the Finish button.

## 3.2.2. Performing SAP Business One Installations on Client Computers

You can install the client application on every workstation that needs to run SAP Business One.

Depending on the required configuration, you can decide which optional components to install on each workstation.

The client components include:

- SAP Business One client application and DI API.
- Mail and fax services installs messaging services that enable sending fax and mail messages from SAP Business One. For more information, see <u>Configuring the Fax Service</u>.
- Software Development Kit installs documentation and samples for the SAP Business One SDK.
- Data Transfer Workbench installs a tool for migrating legacy data into SAP Business One.
- Microsoft Outlook integration add-on standalone version installs a version of Outlook integration that lets you use this add-on without the SAP Business One client application.
   For more information, see Installing SAP Business One in Standalone Mode.

#### **Prerequisites**

 The installation computer complies with all hardware and software requirements, as detailed in SAP Business One System Requirements, available at http://channel.sap.com/sbo/documentation.

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- You have installed Microsoft .NET Framework 3.0. During the installation of the SAP Business
  One Client, the system checks whether Microsoft .NET Framework 3.0 is installed. If it is not
  installed yet, you can install it during client installation. This step is mandatory.
- You have installed Microsoft Visual C++ 2005 SP1 Redistributable Package. If it is not installed yet, you can install it during client installation. This step is mandatory.
- · You have installed Microsoft Excel.
- You have installed the Crystal Reports version for SAP Business One so as to be able to use
  the SAP Business One data source on the client computer. This data source provides SAP
  Business One tables in a hierarchical tree organized according to the SAP Business One
  modules.

For information about installing the Crystal Reports version for SAP Business One, see <a href="Installing Crystal Reports for SAP Business One">Installing Crystal Reports for SAP Business One</a>.

## 3.2.2.1. Installing the SAP Business One Client

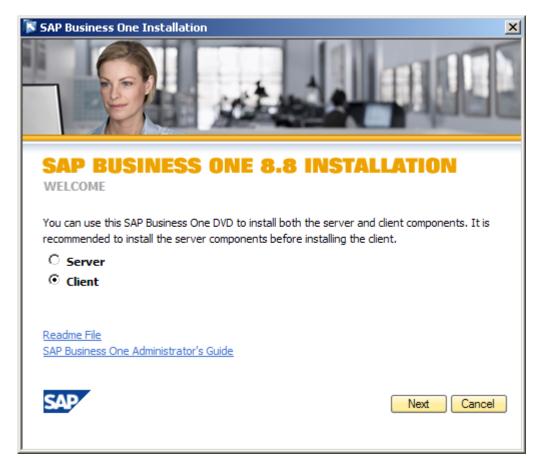
#### **Procedure**

- 1. Insert the DVD in the DVD drive of the workstation or computer on which you want to install the client and wait for the installation program to appear.
  - Alternatively, you can install the client application from .../SAP/SAP Business One Server/B1\_SHR/Clients/setup.exe.
- 2. In the installation window, select the *Client* radio button.



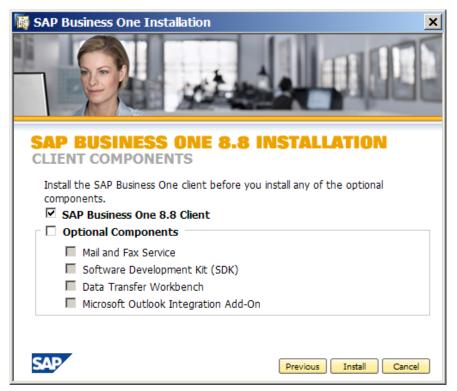
To continue with the client installation, make sure that the license server is running. For information on how to start up your license server, see Configuring the License Manager.





3. In the *Client Components* window, select the *SAP Business One 8.8 Client* checkbox and the optional components you want to install.

Choose the Install button.



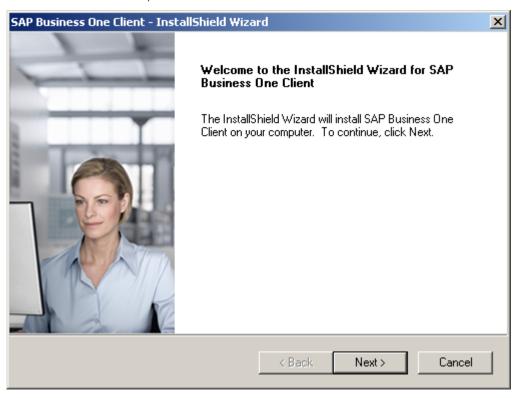


The installation procedure checks whether you have installed Microsoft .NET Framework 3.0 and Microsoft Visual C++ 2005 SP1 Redistributable Package. If these are not installed yet, you can install them by choosing *Install* on the relevant screens.

4. For more information about installing the Crystal Reports software on the client computer, see <u>Installing Crystal Reports for SAP Business One</u>.

The SAP Business One data sources and *Add-ins* menu for Crystal Reports are installed after Crystal Reports Viewer or the Crystal Reports version for SAP Business One is installed.

5. In the Welcome window, choose the Next button.





6. In the Customer Information window, specify the user ID and company name.



7. In the *Select Destination Folder* window, to accept the default location, choose the *Next* button. To select a different location, choose the *Browse* button.





8. In the Select Program Folder window, make sure SAP Business One is displayed in both fields, and then choose the Next button.

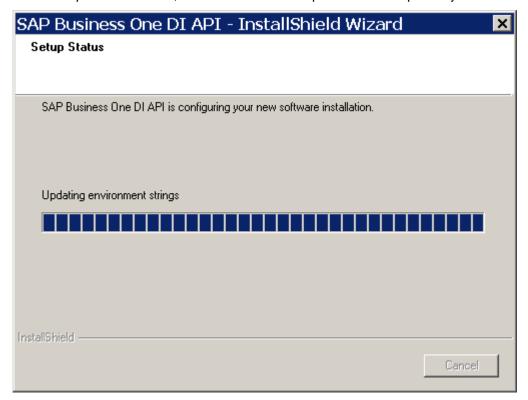


9. In the *License Server Details* window, specify the license server name. Choose the *Next* button.

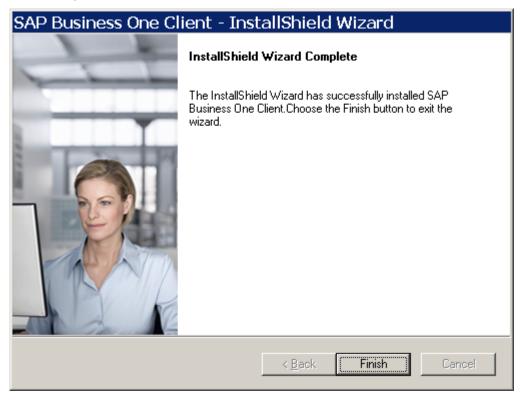




10. In the Setup Status window, the installation wizard performs the required system actions.



11. In the Complete window, choose the Finish button.





## 3.2.2.2. Installing SAP Business One SDK (Software Development Kit)

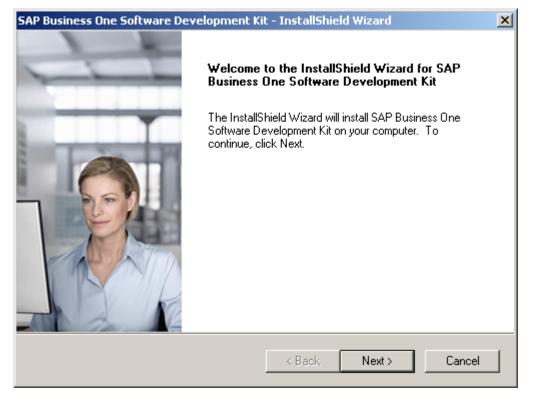


It may take a few minutes until the SDK setup wizard appears.



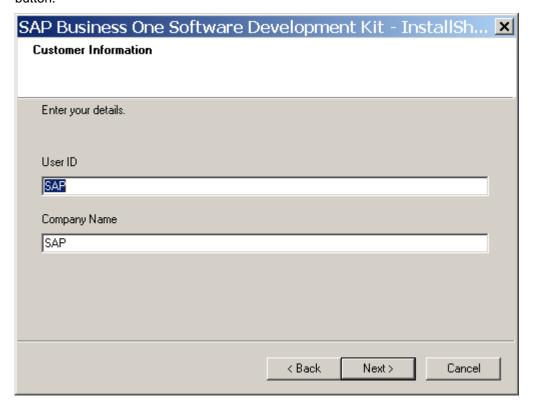
#### **Procedure**

1. In the *Welcome* window, to continue, choose the *Next* button.





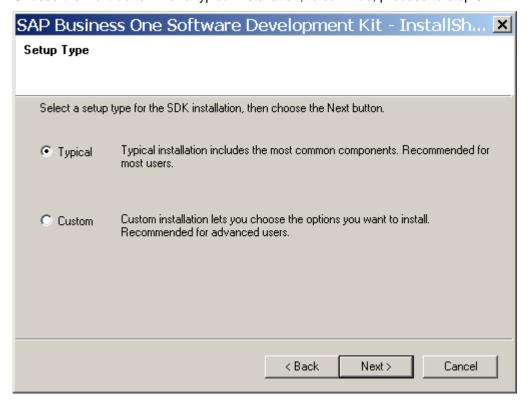
2. In the *Customer Information* window, specify the user ID and company name. Choose the *Next* button.



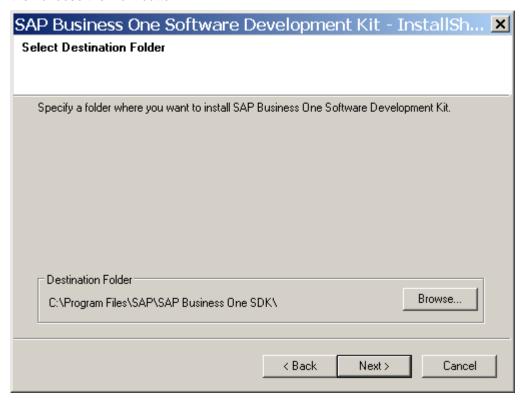
- 3. In the Setup Type window, do the following:
  - o To choose a custom installation in which you can select each option you want to install, select the *Custom* radio button.
  - o To perform a regular installation, select the *Typical* radio button.



Choose the Next button. For a typical installation, to continue, proceed to step 6.

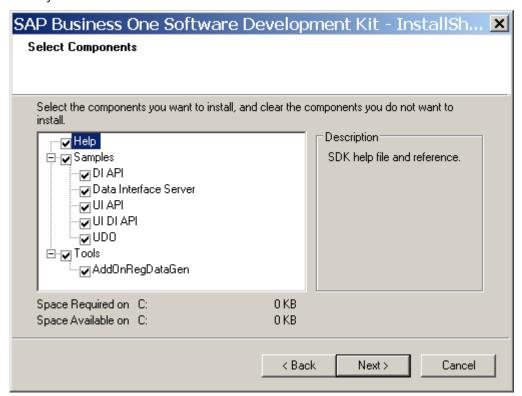


4. In the *Select Destination Folder* window, specify the folder in which you want to install SDK, and then choose the *Next* button.

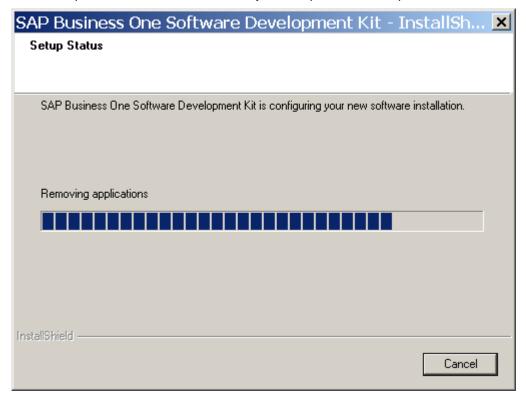




5. In the *Select Components* window, select each component you want to install and deselect those you do not want to install. Choose the *Next* button.

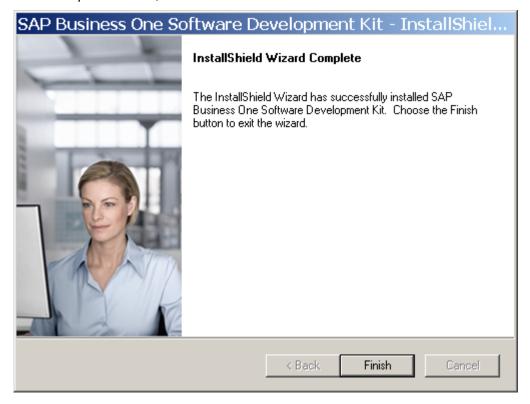


6. In the Setup Status window, wait for the system to perform the required actions.





7. In the *Complete* window, choose the *Finish* button.





## 3.2.2.3. Installing SAP Business One Data Transfer Workbench

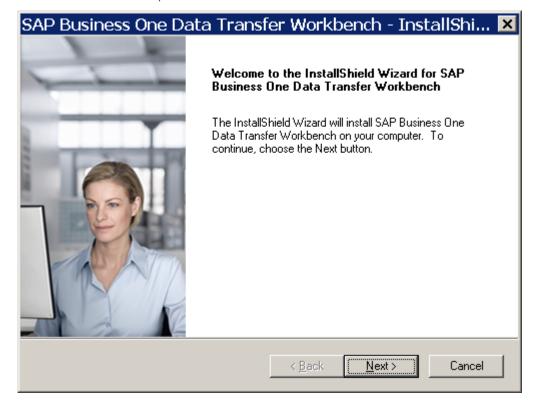


It may take a few minutes until the Data Transfer Workbench setup wizard appears.



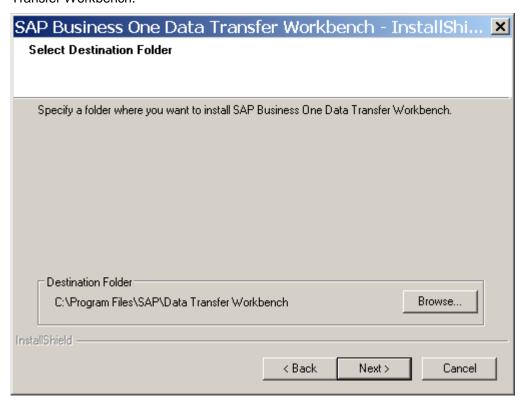
### **Procedure**

1. In the Welcome window, choose the Next button.

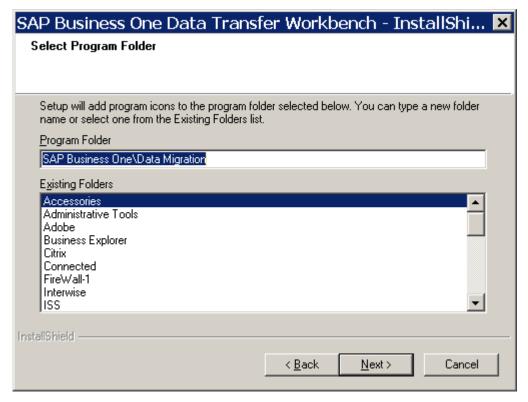




2. In the *Select Destination Folder* window, specify the folder in which you want to install Data Transfer Workbench.

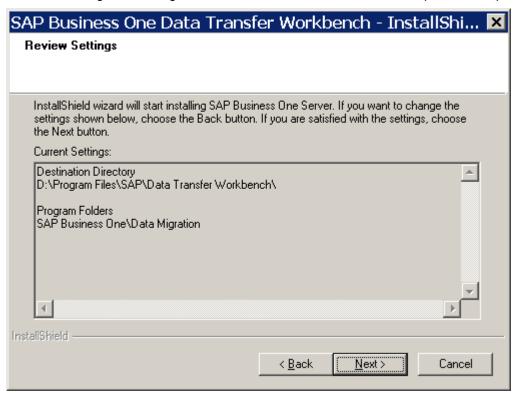


3. In the *Select Program Folder* window, specify the program folder you want to install for Data Transfer Workbench.

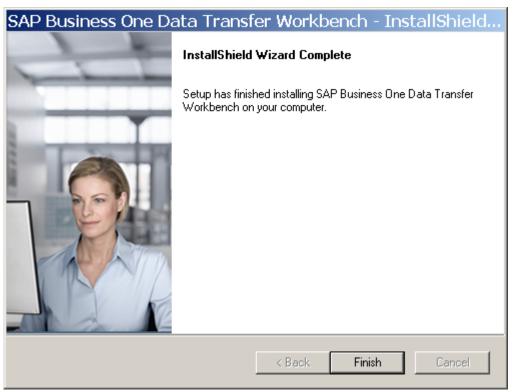




- 4. In the Review Settings window, review the settings you have made:
  - To continue, choose the Next button.
  - o To change the settings, choose the *Back* button to return to the previous steps.



5. In the Complete window, choose the Finish button.





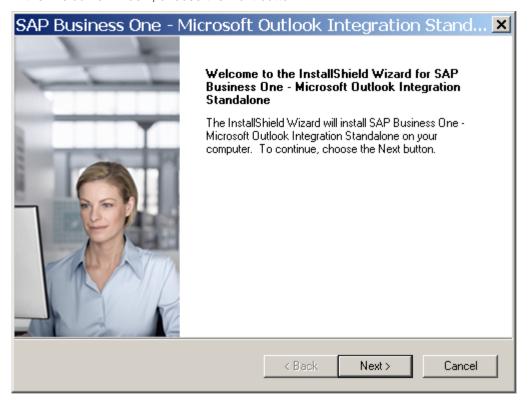
## 3.2.2.4. Installing the Microsoft Outlook Integration Add-On



It may take a few minutes for the setup wizard to launch the installation wizard for the Microsoft Outlook integration add-on.

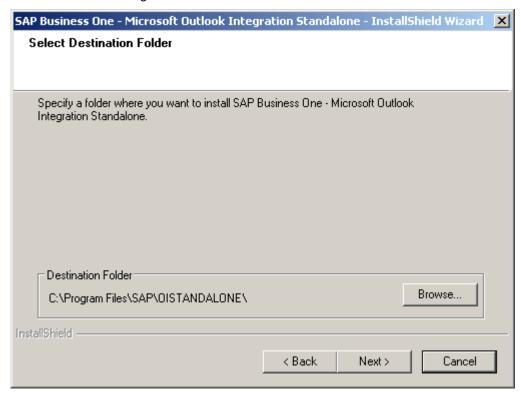
### **Procedure**

1. In the Welcome window, choose the Next button.

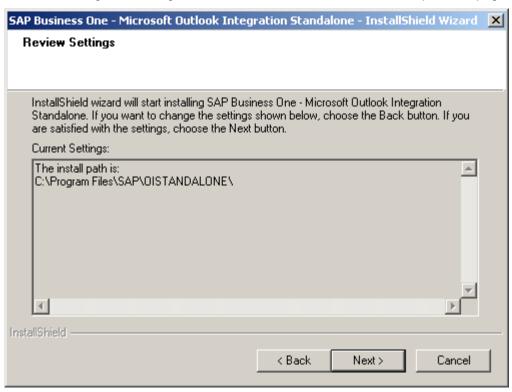




2. In the *Select Destination Folder* window, specify the folder in which you want to install the Microsoft Outlook integration add-on. Choose the *Next* button.

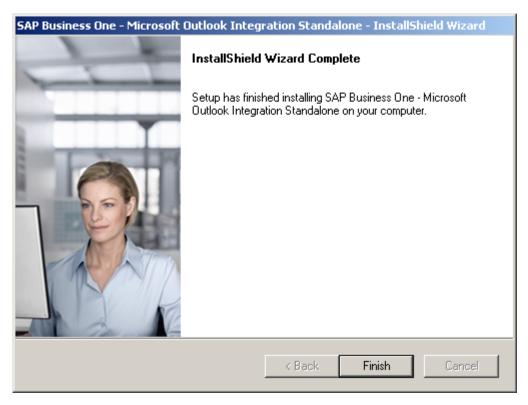


- 3. In the Review Settings window, review the settings you have made, then do one of the following:
  - To continue, choose the Next button.
  - o To change the settings, choose the *Back* button to return to the previous pages.

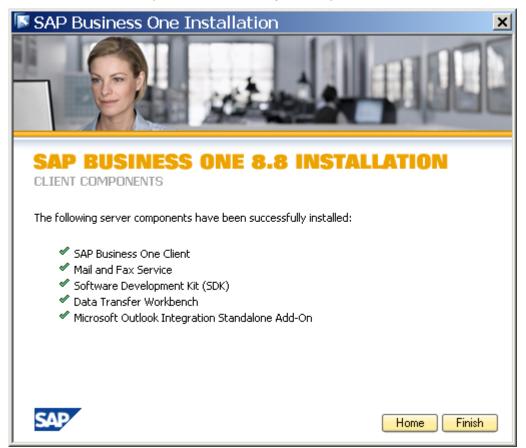


4. In the *Complete* window, choose the *Finish* button.





5. After you have finished installing all the client components, a summary window appears and you can see a list of the components installed on your computer.





## 3.3. Installing SAP Business One in Standalone Mode

In this scenario, you can install the SAP Business One server and client on one computer, as shown in Figure 4 below:

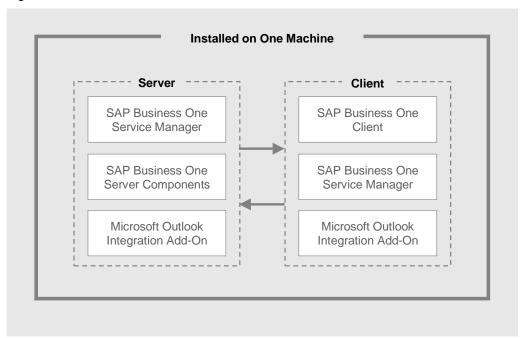


Figure 4: Standalone Landscape

# 3.3.1.Installing SAP Business One on One Computer

To install the SAP Business One server and client components on one computer, proceed as follows:

- 1. Perform the installation of the server tool and server components as described in <u>Installing SAP</u> Business One in Server-Client Mode.
- 2. Perform the installation of the client application and components as described in <a href="Installing SAP">Installing SAP</a>
  Business One in Server-Client Mode.



## 3.4. Installing SAP Business One in Remote Mode

In this scenario, you can perform the SAP Business One server and client installation on a remote computer, as shown in Figure 5 below:

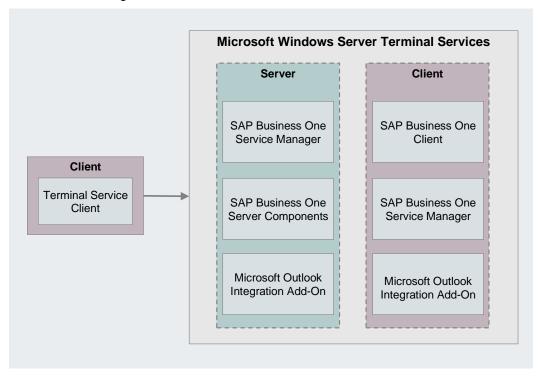


Figure 5: Microsoft Windows Server Terminal Landscape

## 3.4.1.Installing SAP Business One on a Remote Computer

The following example describes the setup of Microsoft Windows Server 2003 Terminal Service for the hosted environment setup.

#### **Prerequisite**

The installation complies with all hardware and software requirements, as detailed in *SAP Business One Requirements*, available at <a href="http://channel.sap.com/sbo/documentation">http://channel.sap.com/sbo/documentation</a>.

#### **Procedure**

To perform the installation of SAP Business One on a remote computer, proceed as follows:

- 1. Install Microsoft Windows Server Terminal Services.
  - a. On the server computer, open the *Control Panel* and double-click *Add/Remove Programs*.
  - b. In the Add/Remove Programs window, choose Add/Remove Windows Components. The Windows Components Wizard opens. You may have to close the Add/Remove Programs window.
  - c. In the list of optional components, select *Terminal Services* and *Terminal Services Licensing*.
  - d. To install terminal service components, choose the *Next* button.
    The wizard verifies whether you want to install the terminal services in Remote Administration mode or in Application Server mode.





#### Recommendation

Select *Application Server* mode as it supports an unlimited number of connections. In addition, you should keep the default installation values.

- e. In Application Server mode, install the software from Windows *Control Panel* by choosing *Add/Remove Programs* → *Add New Programs*.
- f. The setup wizard prompts you to insert Microsoft Windows Server 2003 installation media.

After copying files, the wizard informs you that the terminal services have been installed and that you need to reboot the server computer.

- 2. Install the following in sequence, as described in the section <u>Installing SAP Business One in Server-Client Mode.</u>
  - a. SAP Business One server tools
  - b. SAP Business One server components
  - c. SAP Business One client
- 3. Change the sa logon password and create an alternative user.

For security reasons, you should change the sa logon password right after installing SAP Business One, or create a user to substitute for the sa user, which is the safest option. For more information, see Database Authentication.

## 3.4.2. Performing a Client Installation

You can create the client setup disks from the Terminal Server-Client menu on the terminal server.

#### **Procedure**

To install the terminal services client, proceed as follows:

- 1. Run the setup program on your workstation.
- 2. From the Microsoft Windows task bar, choose *Start* → *Programs* → *Terminal Server Client* and select *Client Connection Wizard*.
- When the wizard appears, specify the name of the terminal server and a description for the connection.



#### Note

If you experience problems entering an actual server name in the *Server Name* field, specify the server IP address.



#### Recommendation

If you manage multiple servers on one workstation, specifying the server name in the *Description* field makes it easy to identify each connection.



#### 3.5. **Installing Crystal Reports for SAP Business One**

#### **Prerequisites**

If you already have the Crystal Reports software installed on your computer, do one of the following:

- If you have Crystal Reports 2008 SP1 installed, you can follow the procedures for installing the Crystal Reports version for SAP Business One as described in the section: Installing Crystal Reports for SAP Business One.
- If you have Crystal Reports 2008 SP0 installed:
  - a. Uninstall Crystal Reports 2008 SP0.
  - b. Follow the installation procedures for installing the Crystal Reports version for SAP Business One as described in the section: Installing Crystal Reports for SAP Business One.
- If you have a release of the Crystal Reports software installed that is earlier than Crystal Reports 2008, you do not need to uninstall it before proceeding to install the Crystal Reports version for SAP Business One.
- If you have the Crystal Reports integration add-on installed with any of the SAP Business One 2007 or 2005 releases, you must first uninstall the add-on before proceeding to the installation of Crystal Reports version for SAP Business One.

The process for installing the Crystal Reports software includes the following procedures:

1. Installing Crystal Reports 2008 SP01



If you have Crystal Reports 2008 SP0 installed the computer where you want to install the Crystal Reports version for SAP Business One, you will be prompted to uninstall it during the installation procedure.

2. Installing Crystal Reports 2008 Fix Pack 03



It is necessary to install Crystal Reports 2008 Fix Pack 03 to ensure that Crystal Reports Viewer is installed correctly in SAP Business One.



# Recommendation

We recommend that you install SAP Business One 8.8 after installing the Crystal Reports version for SAP Business One as shown in the steps above and following procedures. If you have already installed SAP Business One, you may need to run a script that will enable the SAP Business One data source, which shows all the SAP Business One tables organized according to the modules in the SAP Business One Main Menu. For more information, see Running the Crystal Reports Integration Package Script.



For more information about the Crystal Reports version for SAP Business One, see How to Work with Crystal Reports in SAP Business One in the documentation area of SAP Business One Customer Portal at

http://service.sap.com/smb/sbocustomer/documentation.

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## 3.5.1.Installing Crystal Reports 2008 SP01

#### **Procedure**

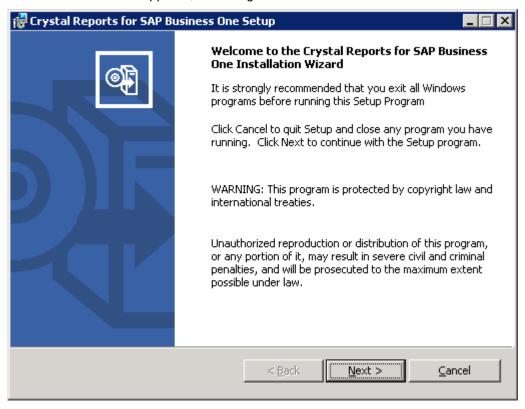
To install Crystal Reports 2008 SP01:

- 1. On the Crystal Reports DVD, in the CR\_2008\_SP01\_for\_B1 folder, double-click the setup.exe file.
- 2. In the Crystal Reports 2008 Setup window, do the following:
  - o In the dropdown list, choose a setup language.
  - Select the Create log file during installation checkbox if you want to create a log file of the installation process.



3. Choose the OK button.

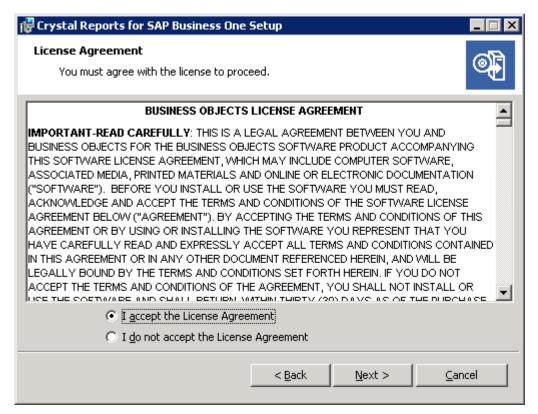
The Welcome window appears, indicating that the installation wizard has started.



4. In the Welcome window, choose the Next button.

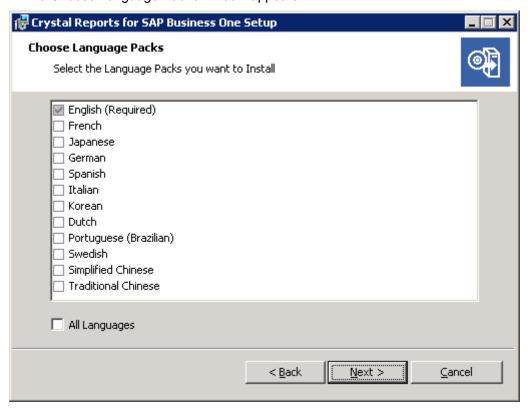
The License Agreement window appears.





5. Read the license agreement, select the *I accept the License Agreement* radio button, then choose the *Next* button.

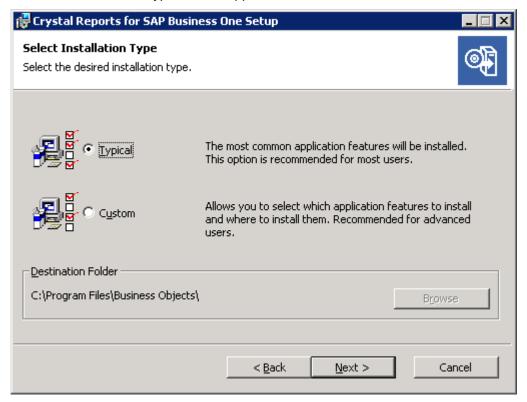
The Choose Language Packs window appears.



- 6. Select the checkboxes of any languages you want to install.
- 7. Choose the Next button.



The Select Installation Type window appears.



- 8. Select the type of installation that you want to perform:
  - Typical
     Installs the most common application features.
  - Custom

Lets you:

- Choose the features that you want installed
- Specify where they will be installed
- Check the disk space required by each feature
- 9. To specify a different location from the default location shown in the *Destination Folder* directory path, choose the *Browse* button.



#### Note

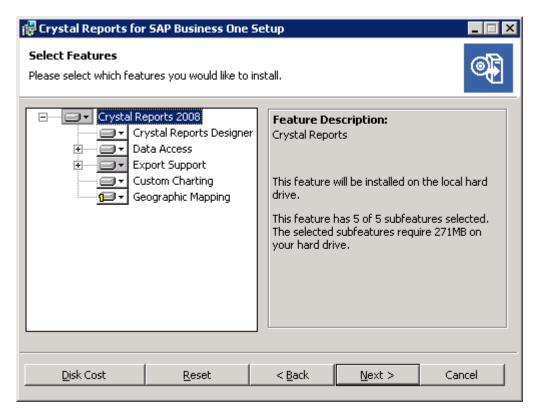
The *Browse* button is inactive if you have done one of the following, because in these cases a destination folder already exists:

- You have already installed SAP Business One; that is, before installing the Crystal Reports software.
- You have already installed Crystal Reports Viewer. For example, this may be installed automatically when you install the SAP Business One 8.8 client.
- 10. Choose the Next button.

If you have selected the *Typical* option in step 8, go to step 13.

If you have selected the Custom option in step 8, the Select Features window appears.





The icons in the feature tree indicate whether the feature and its subfeatures will be installed, as follows:

- A white icon means that the feature and all its subfeatures will be installed.
- A shaded icon means that the feature and some of its subfeatures will be installed.
- A yellow 1 means that the feature will be installed when required (installed on demand).
- A red X means that the feature or subfeature is either unavailable or will not be installed.

The Crystal Reports software uses an "install on-demand" technology for some of its features. As a result, the first time a particular feature is used after being installed, there may be an extra wait for the "install on-demand" to complete. This behavior will affect new installations only once and will not occur when features are restarted.

To select the configuration and location of a feature or subfeature, click its icon.

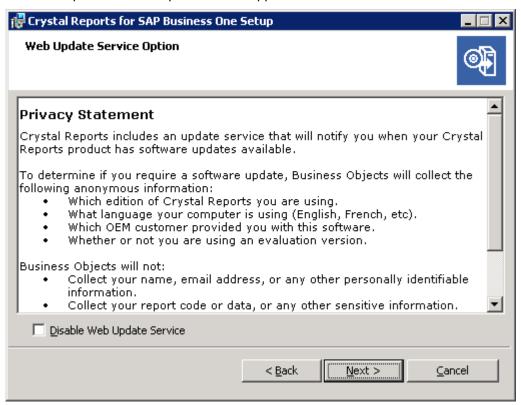


For more information, see the installation guide on the Crystal Reports DVD.



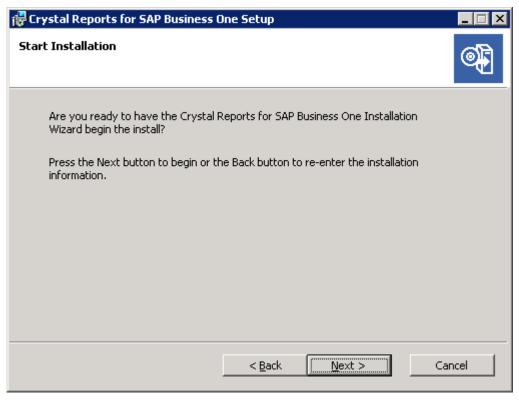
11. Choose the Next button.

The Web Update Service Option window appears.



- 12. To disable the web update service, select the Disable Web Update Service checkbox.
- 13. Choose the Next button.

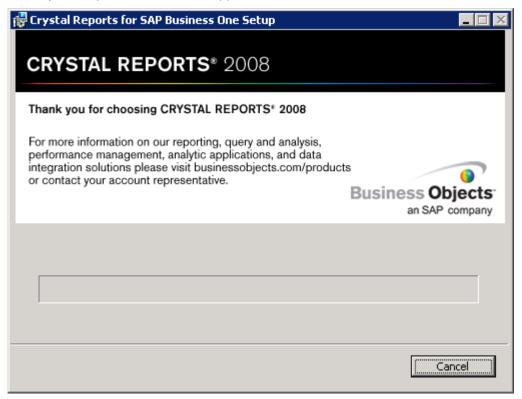
The Start Installation window appears.



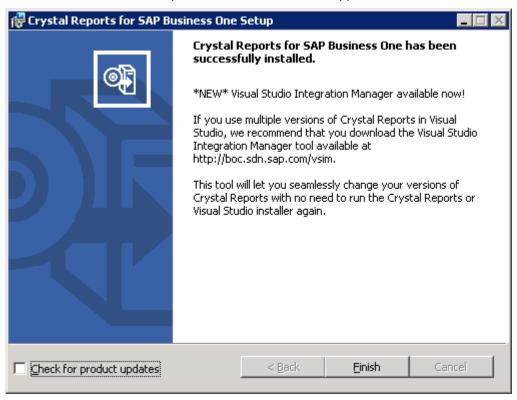


14. Choose the Next button.

The Crystal Reports 2008 window appears.



15. When the installation is complete, the Success window appears.



16. To exit the installation wizard, choose the *Finish* button.

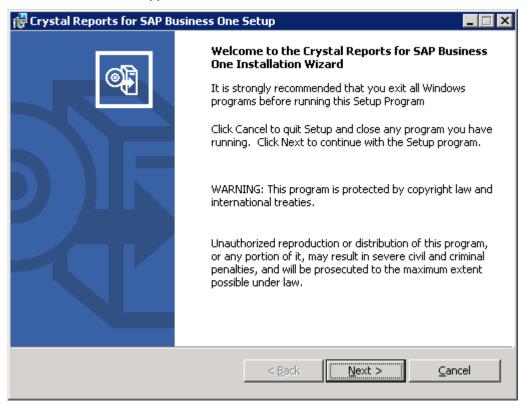


## 3.5.2.Installing Crystal Reports 2008 Fix Pack 03

### **Procedure**

To install Crystal Reports 2008 Fix Pack 3:

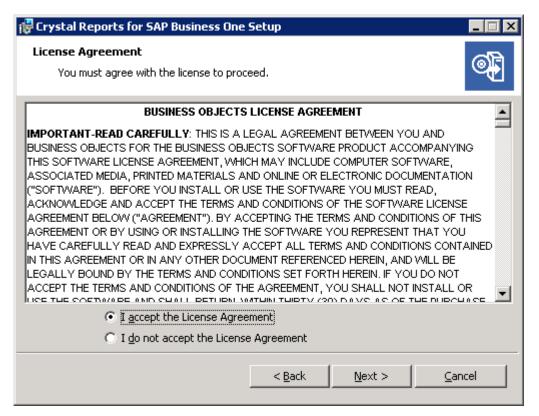
On the Crystal Reports DVD, in the FixPack\_03 folder, double-click the setup.exe file.
 The Welcome window appears.



2. Choose the Next button.

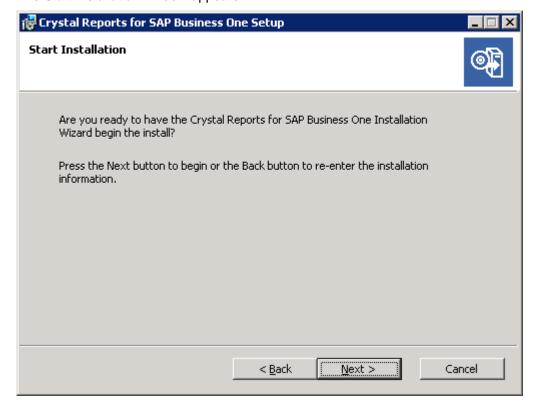
The License Agreement window appears.





3. Read the license agreement, select the *I accept the License Agreement* radio button, then choose the *Next* button.

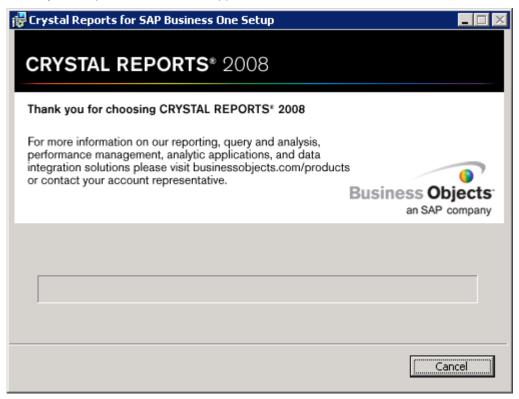
The Start Installation window appears.



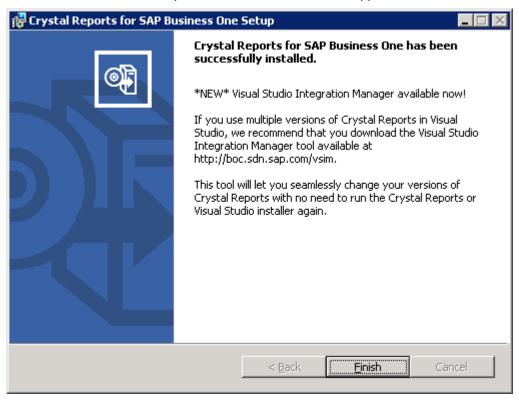


4. Choose the Next button.

The Crystal Reports 2008 window appears.



5. At the end of the installation process, the Success window appears.



6. To exit the installation wizard, choose the *Finish* button.



## 3.5.3. Running the Crystal Reports Integration Package Script

If the SAP Business One data source does not appear when you run the Crystal Reports software, follow the procedure below.



For more information about data sources in the Crystal Reports software, see *How to Work with Crystal Reports in SAP Business One* in the documentation area of SAP Business One Customer Portal at

http://service.sap.com/smb/sbocustomer/documentation.

#### **Procedure**

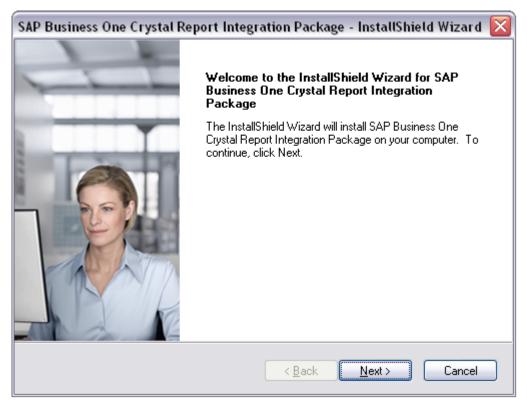
- On your computer, locate the Crystal folder according to the following directory path:
   C:\Program Files\SAP\SAP Business One\Crystal.
- 2. Double-click the file: SAP Business One Crystal Report Integration Package.exe.



#### Note

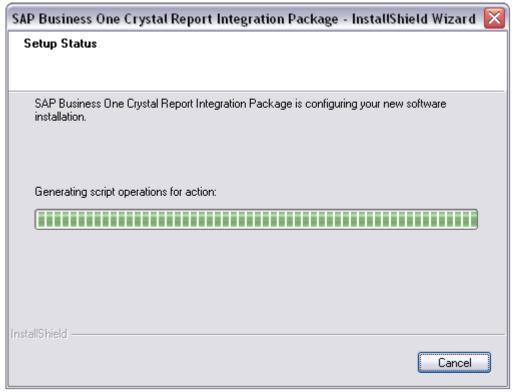
The folder path shown above may be different on your computer, depending on where you have installed SAP Business One and the Crystal Reports software. You can use the Microsoft Windows search facility on your computer to locate the folder and file.

7. In the SAP Business One Crystal Report Integration Package - InstallShield Wizard window, choose the Next button.

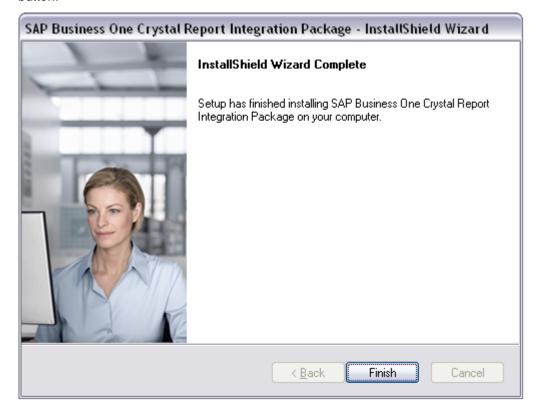


8. In the *Setup Status* screen, a progress bar indicates the stages of the installation process. You do not need to provide any input in this screen.





9. The integration package has been installed successfully. To exit the wizard, choose the *Finish* button.





## 3.6. Uninstalling SAP Business One

When you uninstall SAP Business One, you remove the application and all its components.



You must uninstall all SAP Business One add-ons before uninstalling the SAP Business One server and client components.

#### **Procedure**

- To uninstall SAP Business One add-ons, choose Administration → Add-Ons → Add-On Administration and proceed as follows:
  - a. On the Company Preferences tab, under Company Assigned Add-Ons, select the addons you want to remove.
  - b. Choose the arrow button between the two panels. The add-ons are removed from the list
  - c. In the Available Add-Ons list, select the add-ons you want to remove.
  - d. Choose the Remove Add-On button, and then choose the Update button.

SAP Business One automatically removes the add-ons that you have uninstalled the next time you start the SAP Business One application from any workstation that is connected to the server.



You can move XL Reporter to the *Available Add-Ons* panel but you cannot remove *XL Reporter* in the *Add-On Administration* window. The *Remove Add-On* button is disabled for XL Reporter.

In the Add or Remove Programs window, select the following items one at a time, and choose the Change/Remove button after each selection:

- SAP Business One Server Tools
- SAP Business One Client
- SAP Business One Server
- Data Transfer Workbench
- SAP Business One SDK
- 2. To remove the DI API:
  - If you installed the DI API as part of the SAP Business One client installation, the system removes the DI API when you uninstall the SAP Business One client.
  - If you installed the DI API using the manual setup program in the B1\_SHR/B1DIAPI folder, you must remove it by selecting SAP Business One DI API in the Add/Remove Programs window.

#### Result

SAP Business One entries no longer appear in the *Programs* menu and any shortcuts that you may have on the Microsoft Windows desktop are removed.

You can now do the following:

- Manually delete the SAP Business One folders in Microsoft Windows Explorer.
- Remove SAP Business One databases using your database management application.



# 4. Performing Post-Installation Activities

This section describes the activities you are required to perform immediately after installing SAP Business One. The activities include the following:

- Configuring services
- Installing the license key
- Assigning SAP Business One add-ons
- Installing the Outlook integration standalone version
- Setting up the dot matrix printer

# 4.1. Configuring Services

You must configure the services you have installed if they are to operate properly.



#### Note

The first time you configure any service in the service manager, you need to specify the site user password. This is not for authentication purposes, but to obtain the database password. Once you enter the site user password once, you do not have to enter it again when you configure other services.



### **Example**

You have a landscape of 10 computers, each with a server and server tools. The backup service is installed on all of the server tools, and the license server is installed on computer No. 1. If you go to configure the backup server on computer No. 5, for example, you have to specify the site user password (because it is the first time you are using the service manager). Later, when you want to configure the backup service on another computer, no password is needed, even if the computer is restarted.

SAP Business One services include the following:

- SBO Backups
- SBO DI Server
- License Manager
- SBO Mailer
- Fax service
- Automatic data collection

# 4.1.1.SBO Backup

This optional service performs database backups and lets you schedule automatic backups.

For more information, see Configuring Backup Services.

### 4.1.2.SBO DI Server

This service is optional for your installation. It enables multisession access to, and manipulation of, the SAP Business One company database. To use it, you are required to have a special license.

For more information, see the SDK Help Center.



# 4.1.3. License Manager

This mandatory service manages the application license mechanism.

For more information, see the section Configuring the License Manager below.

### 4.1.4.SBO Mailer

This optional service enables you to send e-mail and fax messages from SAP Business One.

For e-mail messages only, you can install this service on the SAP Business One server or on one of the workstations. For more information, see Configuring SBO Mailer.

# 4.1.5. Configuring the License Manager

Configuring the license manager is essential for the successful operation of SAP Business One. This service manages license requests and lets you install a license key, which is required to run SAP Business One, according to your contract.

For new installations, you can use the application for a period of 31 days without a license key. After that period, the SAP Business One application needs a license key to run.

We strongly recommend that you request a license key immediately after installing the application.

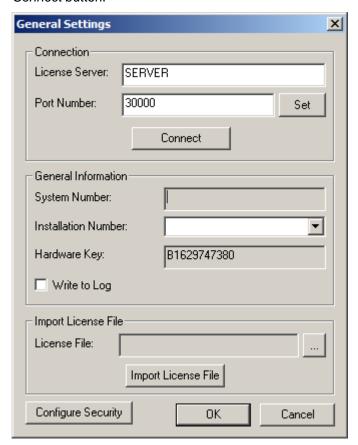
#### **Procedure**

- 1. To open the SAP Business One Service Manager window, in the Microsoft Windows task bar double-click (SAP Business One Service Manager).
  - Alternatively, choose  $Start \rightarrow Programs \rightarrow SAP$  Business One  $\rightarrow$  Server Tools  $\rightarrow$  Service Manager.
- 2. In the Service dropdown list, select License Manager and choose the Settings button.





3. The *General Settings* window shows the details of the license service computer. Choose the *Connect* button.





## Note

If you installed the license service on the SAP Business One server, SAP Business One sets localhost by default. Otherwise, enter a name or IP address for the computer. We recommend that do you not change the default value for the *Port Number* field.



If you installed a firewall on the license service computer, make sure that the firewall is not set to port 30000; otherwise, the license service cannot work.

If you are using Port X, make sure that you open Port X *and* Port (X+1) in the firewall. For example, if you are using port 10000, make sure to also open port 10001.

4. To save your settings and close the *General Settings* window, choose the *OK* button. If you already have a license key file, you can continue to <u>Installing the License Key</u>.



5. Choose (Play) and select the checkbox: Start when operating system starts.



# 4.1.6. Configuring the Fax Service

SAP Business One offers fax services through Microsoft Fax service. For more information, see Configuring Fax Services.

# 4.1.7. Configuring Backup Services

The SAP Business One backup service provides automatic backups of company databases to specified directories.

This service also backs up the following application folders:

- Attachments
- · Bitmap files
- Excel files
- Word documents



For more information about restoring the application folders, see the section: Restore.

#### **Procedure**

To specify SAP Business One application folder paths, do the following:

- In the SAP Business One Main Menu, choose:
   Administration → System Initialization → General Settings
- 2. In the *General Settings* window, on the *Path* tab, use the *Browse* buttons to specify the relevant folder paths.
- 3. Choose the *Update* button and then choose the *OK* button.



To ensure that the backup service can access application folders, specify a computer or computers other than the computers where the SAP Business One server or client is installed.





### Recommendation

We recommend the best practice of using the SAP Business One shared folder  $(B1\_SHR)$  for application folder backups.

The process of configuring an automatic backup service entails performing the following steps:

- Setting backup folders
- Connecting to the database
- Selecting databases
- Scheduling backups

#### **Procedure**

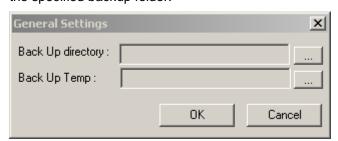
- 1. To set backup folders, proceed as follows:
  - a. To open SAP Business One Service Manager, in the Windows notification area, double-click (SAP Business One Service Manager).

Alternatively, choose Start → Programs → SAP Business One → Server Tools → Service Manager.

In the Service dropdown list, select SBO BackUp and choose the Settings button.



- b. In the General Settings window, do the following:
  - In the *Back Up directory* field, choose \_\_\_\_ (*Browse*) to select the destination of the backup files. Define an actual path.
  - In the Back Up Temp field, choose (Browse) to select a temporary backup folder to hold the backup file, in case the backup process fails to copy the file into the specified backup folder.



c. Choose the OK button.



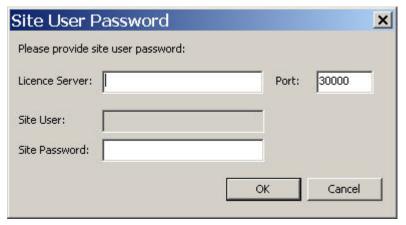
- d. In the SAP Business One Service Manager window, choose (Play) and select the checkbox: Start when operating system starts.
- 2. To connect to the database, proceed as follows:
  - a. In the SAP Business One Service Manager window, choose the Connection button.



b. In the *Site User Password* window, enter the license server address and the site user password, and then choose the *OK* button.



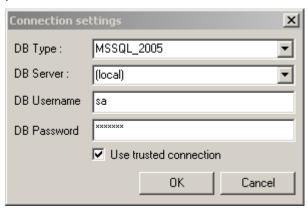
The site user password is only required the first time you connect to a service from SAP Business One Service Manager.





- c. In the Connection Settings window, do the following:
  - Select the database type and the database computer.
  - Specify a valid user name and password. Alternatively, to connect to the database server with Windows authentication, select the *Use Trusted Connection* checkbox.

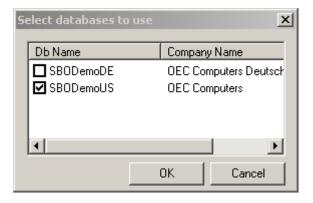
When using a trusted connection, you do not need to specify a database user and password.



- d. To save your settings and close this window, choose the OK button.
- 3. To select the databases, proceed as follows:
  - a. In the SAP Business One Service Manager window, choose the Database button.

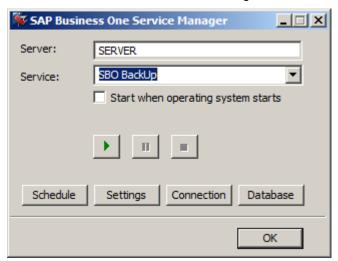


b. In the *Select* databases to use window, select the databases you want to back up and choose the *OK* button.

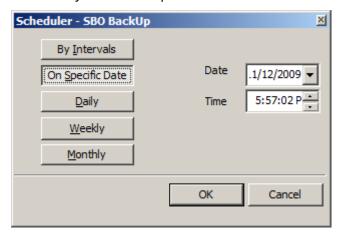




- 4. To schedule the backups, proceed as follows:
  - a. In the SAP Business One Service Manager window, choose the Schedule button.



- b. In the *Scheduler SBO BackUp* window, select one of the following scheduling options for performing backups:
  - On Specific Date defines a backup for a specific date and time.
  - Daily sets a backup for a fixed hour of each day.
  - Weekly sets a backup for a fixed hour on a fixed day of each week.
  - Monthly sets a backup for a fixed hour on a fixed day of each month.



c. Choose the *OK* button. If you do not need to configure other services, close the *SAP Business One Service Manager* window.

# 4.1.8. Configuring SBO Mailer

The process of configuring SBO Mailer comprises the following procedures:

- Starting SBO Mailer
- Defining the mail settings
- Connecting to the database
- Selecting databases
- Setting the mail processing schedules



### **Prerequisites**

You have installed the SBO Mailer service.

For information, see Installing the SAP Business One Server.

#### **Procedure**

- 1. Start SBO Mailer, as follows:
  - a. To open the SAP Business One Service Manager window, in the Windows system tray, double-click (SAP Business One Service Manager).

Alternatively, choose *Start* → *Programs* → *SAP Business One* → *Server Tools* → *Service Manager*.

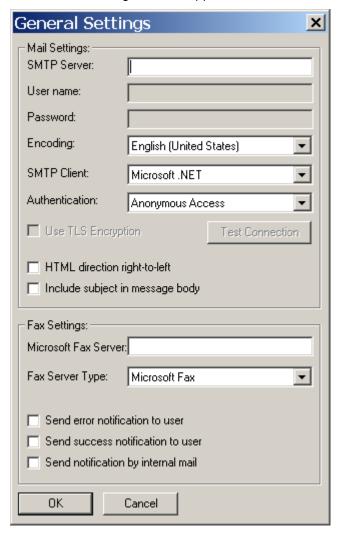
b. In the Service dropdown list, select SBO Mailer.



- c. Choose (Play) and select the checkbox: Start when operating system starts.
- 2. Define mail settings, as follows:
  - a. In the SAP Business One Service Manager window, choose the Settings button.



The General Settings window appears.



- b. In the General Settings window, do the following:
  - In the SMTP Server field, enter the name or IP address of your outgoing mail server. To make changes in this field later, you must stop the Mailer service.
  - In the Encoding field, select the language for e-mail text.
  - If you are using a right-to-left language, to define the direction of the e-mail text, select the checkbox: *HTML direction right-to-left*.
  - To include the subject line in the body of the message, select the checkbox: Include Subject in Message Body.
  - Under Fax Settings, select the required fax service. For more information, see Configuring the Fax Service.



In the General Settings window, enter the details according to your company settings.



- 3. To connect to the database, proceed as follows:
  - a. In the SAP Business One Service Manager window, in the Service dropdown list, select SBO Mailer, and then choose the Connection button.

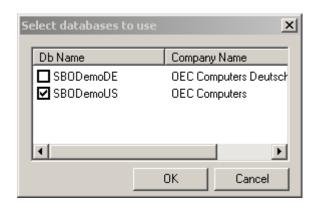


- b. In the Connection Settings window, do the following:
  - To connect to a database, specify a valid user name and password.
  - To use Windows authentication, select the Use Trusted Connection checkbox.
  - Choose the *OK* button.
- 4. To select a database, proceed as follows:
  - a. In the Service Manager window, from the Service dropdown list, select SBO Mailer, and then choose the Database button.



b. In the *Select databases to use* window, select the databases for which you want to enable mailing services, and then choose the *OK* button.





c. In the SAP Business One Service Manager window, from the Service dropdown list, select SBO Mailer, and then choose the Settings button.



d. In the *General Settings* window, in the *Mail Settings* area, select components according to your network definitions, and then choose the *OK* button.



### Note

As of the SAP Business One 2007 A SP01 release, the SAP Business One Service Manager window does not provide access to SBO Mailer e-mail signature settings.

To access these settings, from the SAP Business One *Main Menu*, choose  $Administration \rightarrow System Initialization \rightarrow E-Mail Settings.$ 





- 5. To set the mail processing schedules, proceed as follows:
  - a. In the SAP Business One Service Manager window, in the Service dropdown list, select SBO Mailer, and then choose the Schedule button.



- b. In the Scheduler -SBO Mailer window, select one of the following options:
  - By Intervals sets mail and fax processing to start regularly every x hours and y minutes.



- On Specific Date defines mail and fax processing for a specific date and time.
- Daily sets mail and fax processing for a fixed hour of each day.
- Weekly sets mail and fax processing for a fixed hour on a fixed day of each week.
- Monthly sets mail and fax processing for a fixed hour on a fixed day of each month.
- 2. Choose the OK button to return to the SAP Business One Service Manager window.



- a. In the SAP Business One Service Manager window, choose (Play), and select the checkbox: Start when operating system starts.
- b. To close the SAP Business One Service Manager window, choose the OK button.

### 4.1.8.1. Configuring Fax Services

SAP Business One offers fax services through Microsoft Fax Services. For more information, see *How To Install and Configure Microsoft Fax Services* in SAP Channel Partner Portal at <a href="http://channel.sap.com/sbo/documentation">http://channel.sap.com/sbo/documentation</a>.

This service can send several attachments as separate fax messages, added to a fax message. For supported file types, see the Microsoft documentation at <a href="https://www.msdn.microsoft.com">www.msdn.microsoft.com</a>.

### 4.1.8.2. Troubleshooting

The following troubleshooting information may be required when configuring the mail services:

- 1. Ensure that you have already set up an e-mail account for the SAP Business One users on your mail server. To verify the connection with the mail server, choose the *Test Connection* button.
- 2. The mail service checks the connection with the specified mail server and e-mail account and displays an appropriate message.
- 3. If the SMTP server requires some authentication, for example, if the SMTP server is configured to accept only logon-authenticated mails, but you selected the *No Authentication* option, the test connection should be successful.
- 4. To check whether the connection to the SMTP server works, send a test e-mail. If the connection fails, ensure that you have done the following:
  - Entered the correct name of your mail server
  - o Entered the correct user ID and password
  - Restarted the SBO Mailer service after changing any of the settings



# 4.2. Technical Configurations

In SAP Business One, you can process the following technical data configurations:

- Use the SAP Business One Service Manager to configure the license manager. For more information, see Configuring the License Manager.
- After you have installed SAP Business One and logged on to the application for the first time, you are required to provide the license server address and port number in the *License Server* Selection window.
- In the SAP Business One toolbar, you can check the log configurations by choosing Help →
   Support Desk → Logger Setting. You can see the relevant configuration log file under:
   ...\SAP\SAP Business One\Conf\Bllogconfig.xml.

# 4.3. Installing the License Key

To use your SAP Business One application according to your contract, you are required to install a license key assigned by SAP.

You also must install a new license key whenever any of the following occurs:

- · You have additional users or components.
- The hardware key changes.
- · The current license key expires.
- You have a new installation of SAP Business One.

To avoid changing the hardware key accidentally, do **not** perform the following actions on the license server computer:

- Formatting the computer and reinstalling Microsoft Windows using another product key for Windows
- · Changing the computer name
- Changing the domain (hardware key does not change back when you return to the previous domain)

The following actions are safe and do not change the hardware key:

- Adding a new user logon
- Changing the computer date or time

#### **Procedure**

To open the SAP Business One Service Manager, in the Windows notification area, double-click

Alternatively, choose  $\rightarrow$  Start  $\rightarrow$  Programs  $\rightarrow$  SAP Business One  $\rightarrow$  Server Tools  $\rightarrow$  Service Manager.



In the SAP Business One Service Manager window, in the Service dropdown list, select License Manager and choose the Settings button.

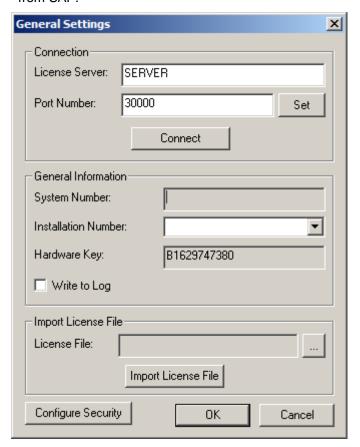


- 2. In the General Settings window, do the following:
  - Enter the computer name or IP address of the computer on which the server tools were installed.



Use localhost only in standalone installations.

 To install the license key file, choose (Browse) and select the txt file you received from SAP.





- 3. Choose the Import License File button.
- 4. To save your settings and close the *General Settings* window, choose the *OK* button.
- 5. To close the SAP Business One Service Manager window, choose the OK button.

# 4.4. Assigning SAP Business One Add-Ons

SAP add-ons are additional components or extensions for SAP Business One. The following add-ons are included in the automatic registration:

- Copy Express
- Datev FI Interface
- ELSTER Electronic Tax Return
- Fixed Assets
- Intrastat
- Format Definition
- Microsoft Outlook integration
- Payment Engine
- Screen Painter
- Bank Transaction Handling Facility (BTHF)
- XL Reporter

Installing both the server and client applications also registers the SAP add-ons and makes them available for installation from the SAP Business One application.

### **Prerequisites**

- You have a Professional license from SAP.
- You have installed Microsoft XML 3.0 Service Pack 4 on your workstation. To ensure that this software is installed on the hard drive of the workstation, check that the msxml3.dll file is saved in the system32 directory in the main Windows directory.
- If you chose *Custom* for the installation of server components, ensure that *SAP Add-ons* is selected in the *Select Features* window.
- You must have Power User or Administrator rights, especially in the terminal server environment.

The following table displays the SAP Business One add-ons and their prerequisites.

Add-On	Prerequisites
Payment Engine	Inbound Functionality is activated only when the Bank Statement Processing checkbox is deselected.
Screen Painter	You have installed Microsoft .NET Framework 2.0 on the SAP Business One workstation intended to run Screen Painter.
Copy Express	To be able to install the Copy Express add-on successfully, you must grant write permission to all users in the SAP Business One B1_SHR server folder.
Format Definition	You have installed Microsoft .NET Framework 2.0.



Add-On	Prerequisites	
BTHF	You have installed Microsoft .NET Framework 2.0.	
Fixed Assets	For customers using Fixed Assets version 2005 SP0 or lower, the fiscal year definition must consist of 12 active periods. Fixed Assets accepts a noncalendar fiscal year only if the customer has defined 12 periods, with each period starting on the first day of the period.	
	For customers using Fixed Assets version 2005 SP1 and higher, the system now supports the use of nonmonthly accounting calendar fiscal year definitions such as a 4-4-5 accounting calendar, and it does not require the fiscal year definition to consist of 12 active periods, as required in 2005 SP0 or in earlier versions.	
	During its initial start-up, Fixed Assets tries to add records to the item master data table. To add an item, you must provide an item group and two valid VAT groups.	
	Since it is the only one that exists in SAP Business One by default, "100" is used as the item group.	
	Fixed Assets uses country-specific VAT codes for all localizations it supports; see SAP Note 770851.	
	CAUTION	
	If you delete the country-specific tax groups or the item group "100" from your company database, you cannot initialize Fixed Assets.	
Microsoft Outlook integration	You have installed the following on your workstation:	
	Microsoft Outlook (supported versions: 2000 SR1 (and higher), 2002, 2003, 2007)	
	Microsoft Word (supported versions: 2000 SR1 (and higher), 2002, 2003, 2007)	
	Microsoft Excel (supported versions: 2000 SR1 (and higher), 2002, 2003, 2007)	
	After installing Microsoft Outlook, you created an e-mail account for sending and receiving e-mails.	
	Microsoft Outlook is set as your default mail client. To check your default mail client, open the <i>Control Panel</i> window, and choose <i>Internet Options</i> . On the <i>Programs</i> tab, make sure that in the <i>E-mail</i> field, <i>Microsoft Outlook</i> is selected.	
	You have closed Microsoft Outlook, Word, and Excel on the workstation.	
Datev FI Interface	You have created a new company to work with the DATEV add-on and deselected the checkboxes: Copy User-Defined Fields and Tables and Copy User-Defined Objects.	
	The DATEV add-on may not work with demo databases.	



### 4.4.1. Constraints

When you run SAP Business One 8.8, you can use only SAP Business One add-ons from Release 8.8. These add-ons can run only on SAP Business One 8.8.

The add-ons run under the SAP Add-Ons license, which is included in the Professional User license.

#### **Procedure**

For information about how to assign SAP add-ons, see the Assigning Add-Ons online help document.

You can find the online help document at the following locations:

- Partners: SAP Channel Partner Portal at <a href="http://channel.sap.com/sbo/documentation">http://channel.sap.com/sbo/documentation</a>
- Customers: SAP Business One Customer Portal at http://service.sap.com/smb/sbocustomer/documentation

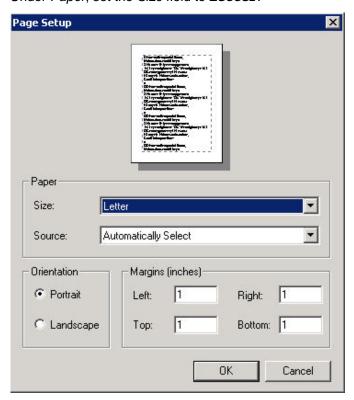
## 4.5. Setting Up Dot Matrix Printers

SAP Business One supports the following models of dot matrix printers:

- Citizen PROdot 300
- OKI Microline Elite 320
- Epson FX-880

### **Procedure**

- In the SAP Business One menu bar, choose File → Page Setup. The Print Setup window appears.
- 2. Under Paper, set the Size field to Letter.



3. In the Windows task bar, choose  $Start \rightarrow Control Panel \rightarrow Printers$ .



- 4. Right-click the selected dot matrix printer and choose *Properties*.
- 5. Choose the *Printing Preferences* button, and then select the *Paper/Quality* tab.
- 6. Choose the *Advanced* button and modify the following properties:
  - a. Set the paper size to Letter.
  - b. Set the print quality to 120x144 dots per inch or to the closest available value.



# **Upgrading SAP Business One**

To upgrade your SAP Business One application to version 8.8 and run it successfully, you must do the following:

- 1. Upgrade your SAP Business One successfully to 8.8
- 2. Renew your SAP Business One license to 8.8
- 3. Import the 8.8 license file



# Recommendation

Before upgrading to SAP Business One 8.8, we recommend that you read the material about the Accelerated Upgrade Program (AUP) that is available in the SAP Service Marketplace. AUP is a standard and documented upgrade methodology, which includes tools, templates, and best practice recommendations for efficiently handling SAP Business One upgrades. The Accelerated Upgrade Program (AUP) is available at http://www.channel.sap.com/sbo/aup.



#### Note

For the latest information about upgrade issues that may not appear in this guide, see SAP Note 1289522.

#### 5.1. **Upgrade Methods**

You can use either of the following upgrade methods to upgrade previous SAP Business One versions to 8.8.

Use the SAP Business One upgrade wizard to upgrade your SAP Business One to a higher major version, a support package, or a new patch above the SAP Business One 8.8 release. If any of the upgrade steps fail, you can use the restoration mechanism to reverse all the database changes made to your SAP Business One landscape by the wizard, and return to the SAP Business One version before the upgrade.



### CAUTION

To detect any errors or warnings that may arise in the SAP Business One upgrade process, it is mandatory that you perform a trial run of the SAP Business One upgrade wizard up to and including step 12 as described in the procedure below. The results of the pre-upgrade checks in the upgrade wizard will indicate where you may need to correct any errors before performing the actual upgrade. If no issues are found, you may continue with the upgrade procedure.

Upgrade directly from the upgrade package folders.

You can use the upgrade files in the upgrade package to upgrade the components you want, although this method is not recommended and only advanced users can use it.



### AUTION

If you want to upgrade the SAP Business One server or company database, you can run the upgrade wizard ONLY on the SAP Business One server computer.



### CAUTION

The upgrade files listed in the upgrade package do not form a whole set of the upgrade process files. They are provided for advanced users only. For more information, see the

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Administrator's Guide of previous versions in SAP Business One Customer Portal at <a href="http://service.sap.com/smb/sbo/documentation">http://service.sap.com/smb/sbo/documentation</a>.



# **▲** Note

When you perform an upgrade from SAP Business One 2005 A SP01, 2007 A, or 2007 B to SAP Business One 8.8, your previous SBO Mailer e-mail signature settings are automatically copied to the Common database and appear on the *Common E-Mail Signature* tab of the *E-Mail Settings* window.

You can access these settings from the SAP Business One *Main Menu*  $\rightarrow$  *Administration*  $\rightarrow$  *System Initialization*  $\rightarrow$  *E-Mail Settings*.

# 5.2. Supported Releases for Upgrade

The following releases are currently supported for upgrade to 8.8:

- SAP Business One 2005 A SP01
- SAP Business One 2005 B
- SAP Business One 2007 A
- SAP Business One 2007 B
- SAP Business One 2007A SP01

For more information about upgrade releases and specific patches, see the collective SAP Note for upgrade issues: 1289522.



#### Note

To upgrade an SAP Business One version that is lower than 2005 to 8.8, first upgrade the current version to 2005 A SP01, 2005 B, or 2007 and then perform the upgrade to 8.8.

### **Prerequisites**

- You have downloaded the upgrade package from SAP Service Marketplace. For more information, see <u>Downloading the Upgrade Package</u>.
- You have made sure that company databases are not connected to either SAP Business One clients or SQL Server clients.
- You have the SAP Business One 8.8 license file available. You need this license file for connecting your company after the upgrade process is finished. If you do not import a valid license file for SAP Business One 8.8 after the upgrade process, you cannot work with your company.
- You have Administrator rights on the computer that runs the SAP Business One upgrade wizard.

To check if you have Administrator rights on your computer, proceed as follows:

- a. On your desktop, right-click the *My Computer* icon and choose *Computer Manage* → *Local Users and Groups*.
- b. Choose Groups → Administrators.
- The SBO-COMMON database is installed on the server.





The SBO-COMMON database that you have installed on your computer must not be a later release than the upgrade package, or the upgrade cannot proceed.

You have installed the Crystal Reports software.



If you want to install the Crystal Reports software after upgrading the SAP Business One client, you may need to run the Crystal Reports integration package script. For more information, see Running the Crystal Reports Integration Package Script.

For more installation information about installing the Crystal Reports software, see <u>Installing</u> Crystal Reports for SAP Business One.

During the upgrade of SAP Business One, you have the option of installing remote support
platform for SAP Business One. For more information about installing remote support platform
for SAP Business One, see the Administrator's Guide to Remote Support Platform for SAP
Business One document under: \Documents\Remote Support Platform on the SAP
Business One product DVD or on the dedicated landing page in SAP Channel Partner Portal at
http://channel.sap.com/sbo/rsp.

# 5.3. Upgrade Process

Upgrading SAP Business One consists of the steps outlined below. Each of these steps is explained in more detail in the following subsections.

- 1. Run the SAP Business One upgrade wizard to perform the following operations:
  - a. Validate the license server
  - b. Select components for upgrade



Upgrade all the server components at one time, and not separately. Otherwise you may have problems fixing certain errors in the pre-upgrade check.

- c. Select a database for upgrade
- d. Perform pre-upgrade checks
- e. Specify a backup location (only occurs when database components are selected for upgrade)
- f. Run the upgrade process
- g. Restore (only occurs when upgrade fails)
- 2. Upgrade SAP Business One client workstations.
- 3. Upgrade SAP Business One add-ons.



You cannot use the SAP Business One upgrade wizard for this step.



# 5.3.1. Downloading the Upgrade Package

Download the SAP Business One upgrade package from SAP Service Marketplace, as follows:

- 1. Go to the SAP Business One software distribution center in SAP Service Marketplace at <a href="http://service.sap.com/sbo-swcenter">http://service.sap.com/sbo-swcenter</a>.
- 2. To download an upgrade, click SAP Business One Products in the left navigation panel and choose Updates.
- 3. Navigate to and select the relevant download object.
- 4. Before starting the download, read the *Info* file for the selected download object.
- 5. Extract the downloaded file to your computer.
- 6. Before you start an upgrade, read the section Running the SAP Business One Upgrade Wizard.

If you experience problems when downloading software, send a message to SAP as follows:

- 1. Go to the SAP Business One support center in SAP Channel Partner Portal at <a href="http://channel.sap.com/sbo/support">http://channel.sap.com/sbo/support</a>.
- 2. In the left navigation panel, click Partner Support Dashboard.
- 3. Use SAP Message Wizard to write the message and assign it to component SBO-CRO-SUP.

# 5.3.2. Running the SAP Business One Upgrade Wizard

#### **Procedure**

- 1. In the upgrade root folder, double-click the *Upgrade.exe* file.
- 2. To continue with the upgrade, in the *Welcome* window, choose the *Next* button.



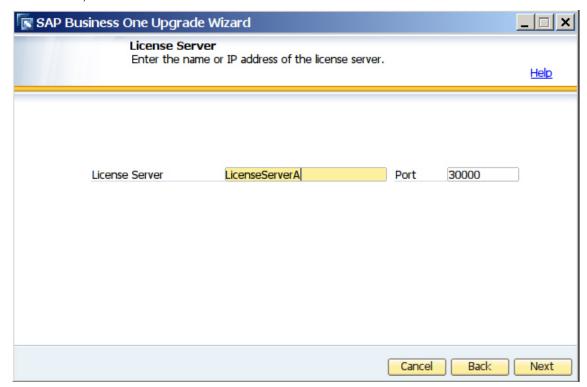


3. In the License Server window, specify the license server that you want to validate.



If you are choosing a remote license server, make sure it is the 8.8 release; otherwise, the upgrade cannot proceed.

To continue, choose the Next button.



The wizard starts to validate your license server. If you have now upgraded your license server to the 8.8 release, go on to step 4; otherwise, go to step 5.



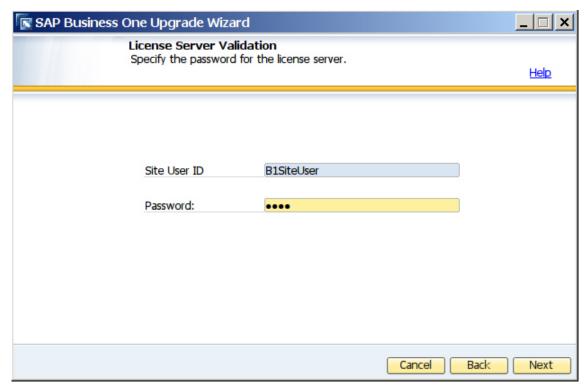
If the wizard detects a license server, but has problems communicating with that license server, the following reasons may be causing the communication problems:

- License server is not launched
- License server cannot be connected

To continue with the wizard, you must fix the connection problems.



4. In the *License Server Validation* window, specify the site user password, and then choose the *Next* button.



- 5. In the *Connection Settings* window, specify the following fields of your SAP Business One server:
  - o Server Type: Select a Microsoft SQL Server type from those you installed.
  - Server Name: Specify the computer name on which you installed Microsoft SQL Server 2005 or 2008.



In the Server Name field, make sure of the following:

- The name of the computer on which you installed Microsoft SQL Server does not contain any special characters, such as:
  - &
  - <
  - >
  - "
  - ,
- Do not use the following entries: localhost, (local), . and 127.0.0.1.

To check or correct the name of your computer, proceed as follows:

- a. Choose  $Start \rightarrow Control\ Panel \rightarrow System$ .
- b. In the System Properties window, select the Computer Name tab.
- c. In the Computer name field, check the computer name.
- d. To correct the computer name, choose the *Change* button.

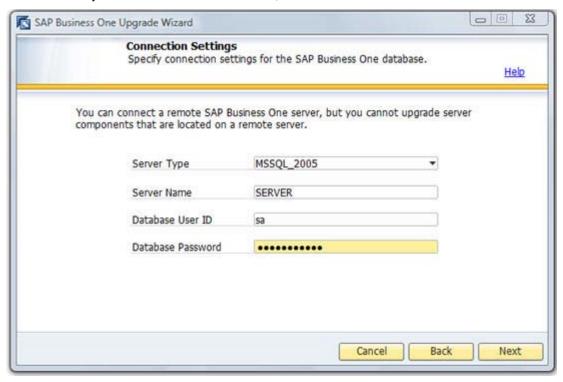


- e. In the *Computer Name/Domain Changes* window, specify a new name for the computer, and then choose the *OK* button.
  - Database User ID: On the Server Roles properties tab in Microsoft SQL Server Management Studio, specify a user enabled with sysadmin.
  - Database Password: Specify the password of your database user.



If you have problems setting the server, make sure that the name format of your computer is the same as the name format of your license server.

To connect to your SAP Business One server, choose the Next button.



6. In the *Component Selections* window, select the checkbox of each component that you want to upgrade.

If a component has already been upgraded to the current version or release, its checkbox is enabled and not selected. You can select it again to overwrite the component instance.



### Recommendation

We recommend that you upgrade all the server components at one time, and not separately. Otherwise you may have problems fixing certain errors in the pre-upgrade check.

Choose the Next button.



#### Note

To upgrade all SAP add-ons, select the *Add-Ons* checkbox. Then all the new releases of add-ons, including the Microsoft Outlook integration server installer add-on, are automatically registered on the SAP Business One server and new installers are uploaded to the server. For more information about upgrading add-ons, see <u>Upgrading SAP Add-Ons</u>.





#### Note

If the Common Database checkbox is inactive and not selected, it means that the SBO-COMMON database is not on your computer.



#### Note

The license server, as part of the server tools, must be upgraded first. If your license server has not been upgraded to 8.8, the wizard automatically selects the *Server Tools* checkbox.



#### Note

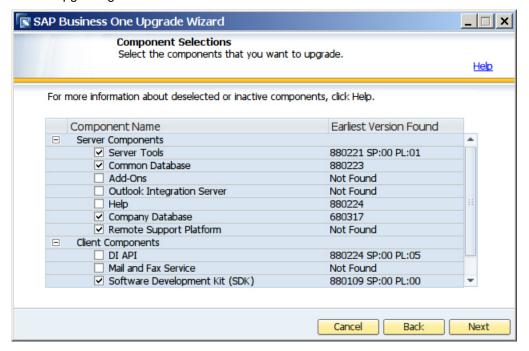
If the installation of remote support platform for SAP Business One fails, this does not affect the successful installation SAP Business One.

The installation of remote support platform for SAP Business One does not impact SAP Business One business processes. There is no technical dependency between SAP Business One and remote support platform for SAP Business One.



#### Note

The upgrade wizard upgrades client components, but it does not upgrade client workstations. For more information about upgrading SAP Business One clients, see Upgrading SAP Business One Client Workstations.



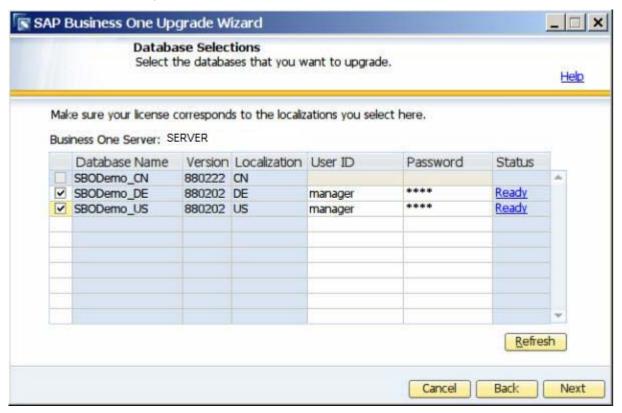
- 7. In the Database Selection window, do the following:
  - Select the checkboxes of the databases that you want to upgrade.
  - In the User ID and Password fields, specify the SAP Business One super user account and password.

Choose the Next button.





If you have selected the *Common Database* checkbox in the previous *Component Selection* window, the checkbox is selected and inactive now.



The wizard checks the version and the localization of the database, as well as the user ID and the password that you have specified.

- o In each of the following cases, the status of the database displays as *Not Ready*, and the wizard disables the checkbox of the database:
  - The wizard does not support the version of the company database.
  - The company database is already of the latest version.
  - The wizard does not find the localization of the company database from the locale list of the common database.
- In each of the following cases, the status of the database displays as Not Ready, and the checkbox of the database is active:
  - The wizard finds more than one connection to the database.
  - The user ID or the password that you have specified is incorrect.
  - Superuser is locked or no superuser is provided.



8. If all the selected databases have the status *Ready*, choose the *Next* button.



If any of the selected databases has the status *Not Ready*, the wizard disables the *Next* button

Choose the *Not Ready* link to see the details. You cannot proceed to the next step until you have fixed the problem.

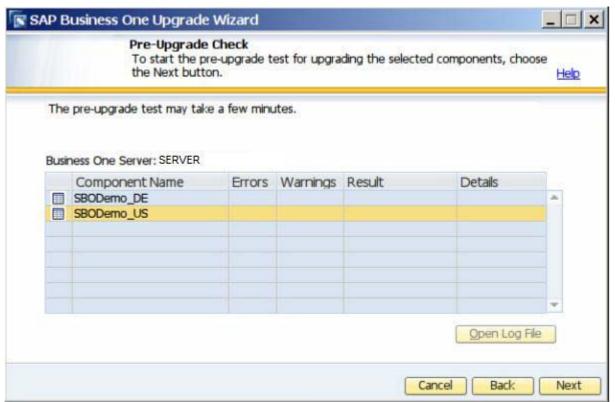
To proceed with the upgrade while ignoring the *Not Ready* databases, deselect these databases and choose the *Next* button.

9. In the *Pre-Upgrade Check* window, choose the *Next* button.

The SAP Business One upgrade wizard performs a set of pre-upgrade checks on each database to ensure its readiness for the upgrade and to reduce the possibility of upgrade failure.



For the latest detailed information about all pre-upgrade checks, see SAP Note <u>1357462</u>.

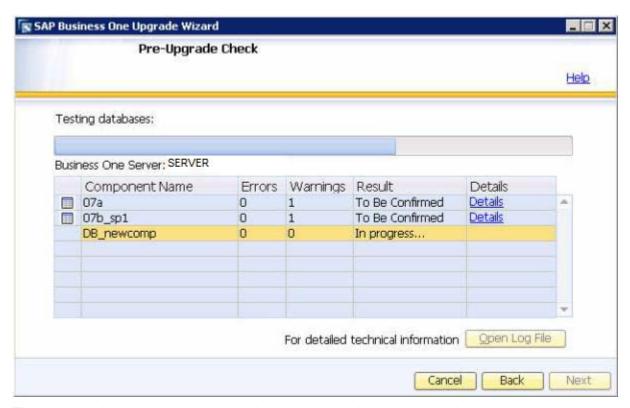


10. In the next window, the wizard first checks the SBO-COMMON database and then checks each of the rest of the databases one by one.



If the  ${\tt SBO-COMMON}$  database does not pass the checks, the wizard does not continue with the rest of the checks.





The pre-upgrade test checks the selected components and databases one by one.

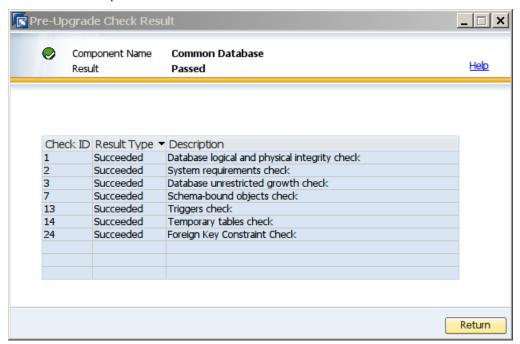
After the processing, you can learn more from the following:

- o Details: Click this link to view the processing details of each component and database.
- Open Log File: Choose this button to open a log file window that contains all testing records.
- 11. After finishing the checks on all the databases, depending on the check results, the wizard takes you to a result window, as described in the table below.

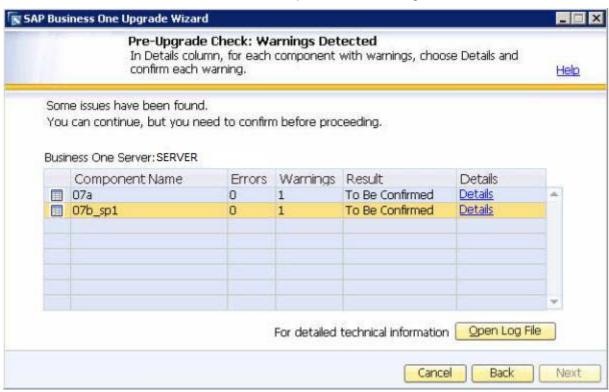
Status	Next Window
No errors or warnings	Pre-Upgrade Check
One or more warnings but no errors	Pre-Upgrade Check: Warnings Detected
One or more errors, warnings not a consideration	Pre-Upgrade Check: Errors Detected



- 12. In one of the following windows that appears, perform the following actions:
  - If the Pre-Upgrade Check Result: Passed window appears, choose the Return button to return to the Pre-Upgrade Check window and choose Next to continue with the upgrade. Continue with step 13.



- If the Pre-Upgrade Check: Warnings Detected window appears, to continue with the upgrade, do the following:
  - i. Click the *Details* link to see the descriptions of the warnings.



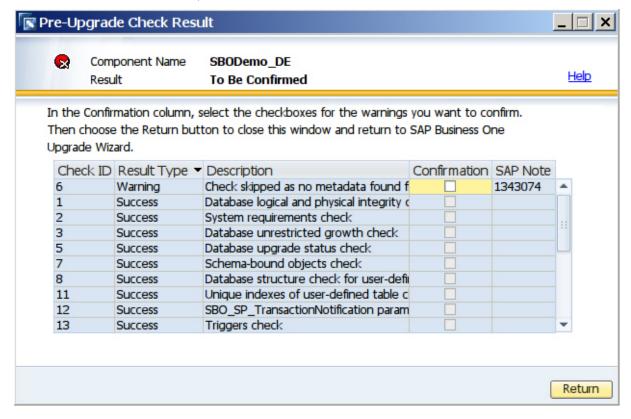


ii. In the Pre-Upgrade Check Result window, select the checkbox of each warning.



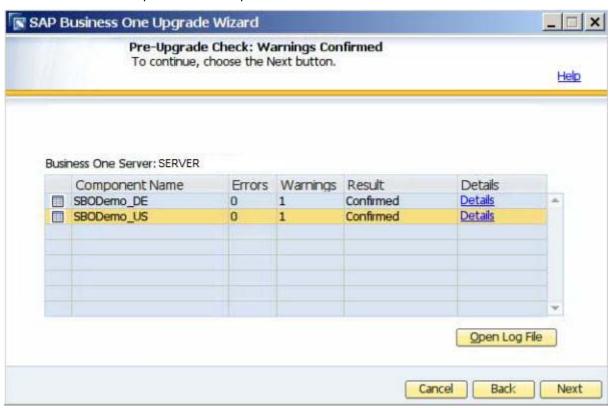
You cannot continue the upgrade process without confirming the warnings.

iii. In the next window, choose the Return button.

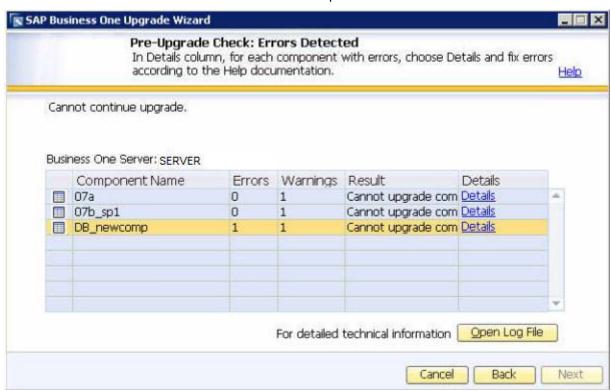




iv. In the *Pre-Upgrade Check Result: Warnings Confirmed* window, choose the *Next* button and proceed with step 13.



- o If the Pre-Upgrade Check: Errors Detected window appears, do the following:
  - i. Click the Details link to see the error descriptions.





ii. In the *Pre-Upgrade Check Result* window, click the *Help* link to get the details of the required actions.



- iii. Proceed with the required action.
- iv. In the *Pre-Upgrade Check Result* window, choose the *Return* button to go back to the *Pre-Upgrade Check: Errors Detected* window.
- v. In the *Pre-Upgrade Check: Errors Detected* window, select all the rest of the components and check for errors, repeating steps i through iv.
- vi. In the *Pre-Upgrade Check: Errors Detected* window, choose the *Back* button and redo the pre-upgrade check process as described in step 10.



You must fix all the errors; otherwise, you cannot continue upgrading SAP Business One.

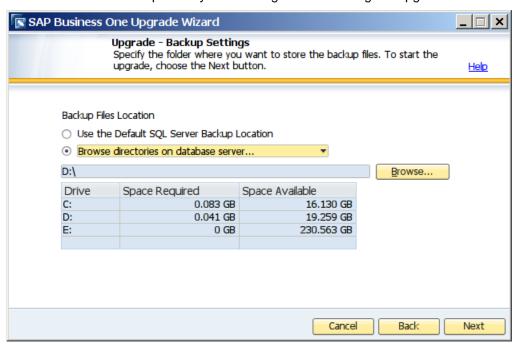
- 13. In the *Upgrade-Backup Settings* window, specify the location where you want to store the backup files:
  - To use the default backup path configured in SQL Server, choose Use the Default SQL Server Backup Location.
  - o To use a location on the database server, choose *Browse directories on database server* and click the *Browse* button to choose a directory.
  - To use a network drive, choose Enter a network path and specify the path.

After you specified a location for the backup, the system displays the required space and the available space for the following:

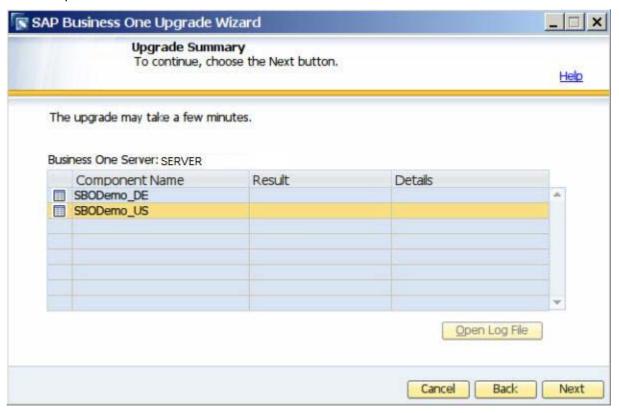
- The databases backups
- The increased parts of the databases after the upgrade, such as the log files generated during the upgrade process



The backups of any other files generated during the upgrade

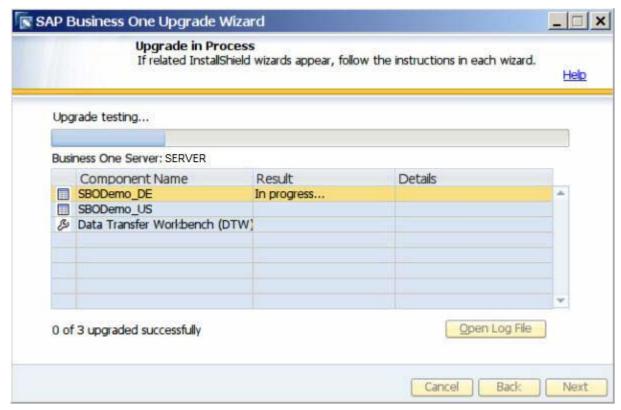


14. In the *Upgrade Summary* window, the wizard displays the operations that will be carried out for each component and database.





15. The *Upgrade in Process* window displays the upgrade progress of each component and database.



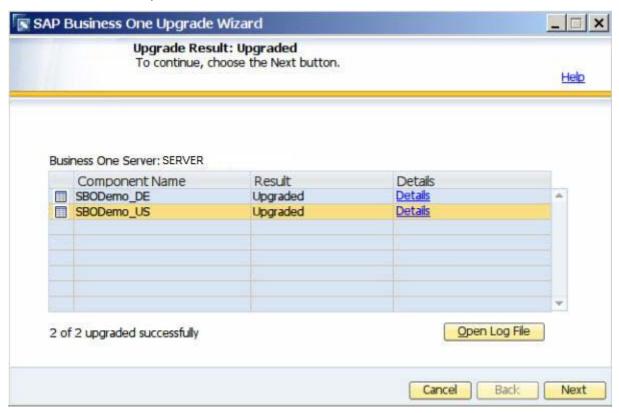


The InstallShield Wizard that runs from the SAP Business One upgrade wizard indicates that it is installing various components. However, all references to *installation* should be understood as *upgrade*.

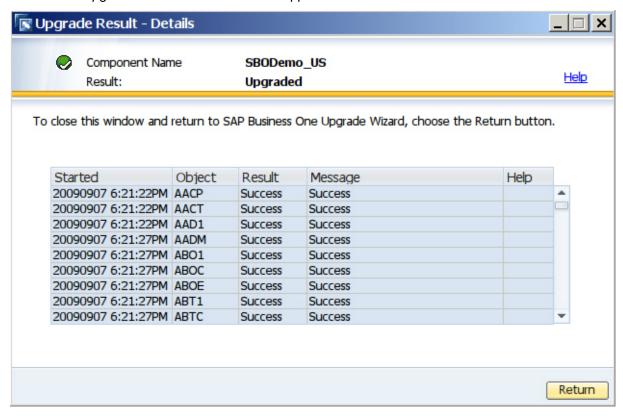
- 16. According to the upgrade results, you see one of the following windows:
  - Upgrade Result: Upgraded window: If the upgrades of all components and databases succeed, the wizard opens this window.



■ To continue, choose the *Next* button.

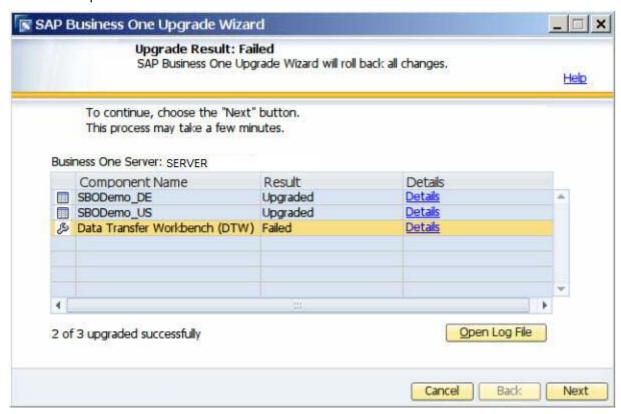


■ To view the details of the upgraded components, click the *Details* link. The *Upgrade Result – Details* window appears.



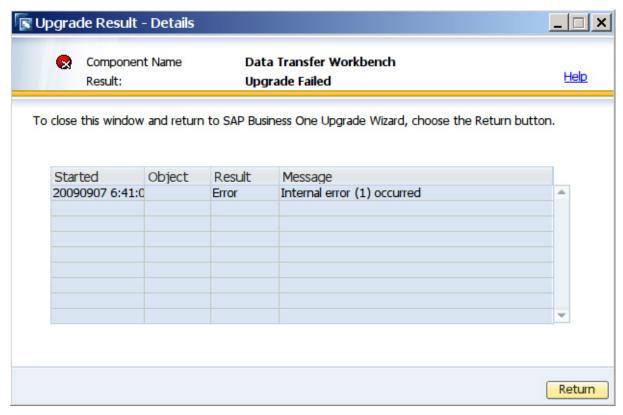


 Upgrade Result: Failed window: If the upgrade of any component or database fails, the wizard opens this window.

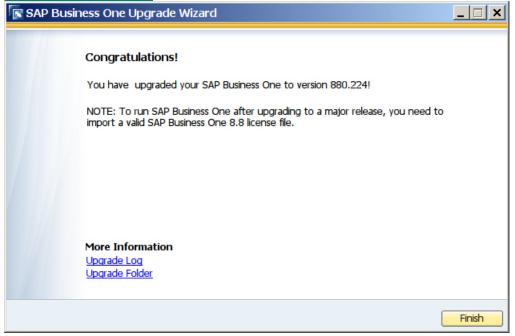


- To continue with the restoration step of the rollback process, choose the *Next* button, and then proceed to the section Restoring Components and Databases.
- To see the details of the failed components, click the Details link.





In the *Congratulations* window, choose the *Finish* button close the wizard. You can proceed to <u>Upgrading SAP Add-Ons</u>.





# **5.3.3. Restoring Components and Databases**

If the upgrade process fails, the SAP Business One upgrade wizard restores the components and databases.



The procedure below continues from step 16 in the previous section, <u>Running the SAP Business One Upgrade Wizard</u>. It is relevant only for cases where the upgrade has failed.

### **Procedure**

To start the restore procedure, do the following:

1. In the Restoration window, choose the Next button.

The wizard starts to restore components or databases one after another.



Note

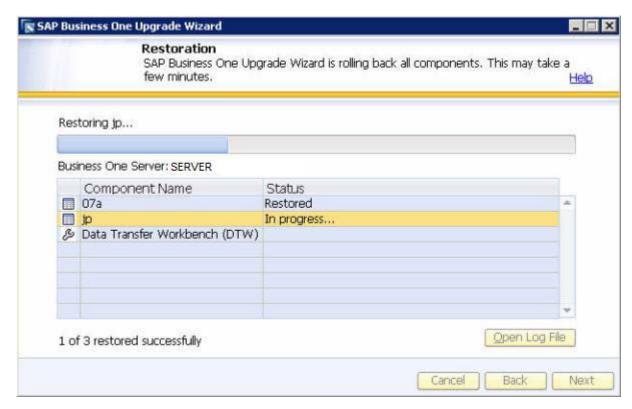
The SAP Business One upgrade wizard restoration only reverses all the changes made to the following database components:

- Common database
- Company databases
- Add-ons
- Help File

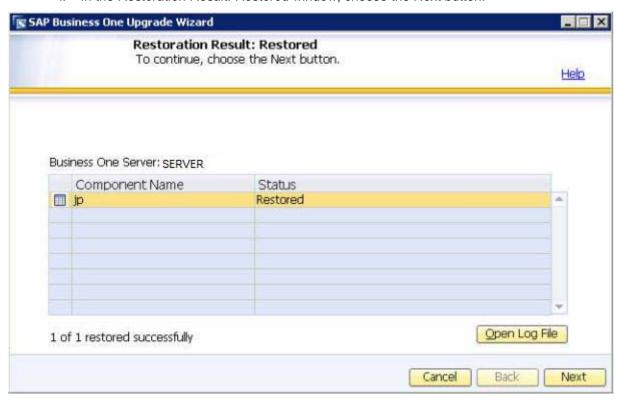
The components that cannot be restored are:

- Server Tools
- DTW
- DI API
- Microsoft Outlook integration



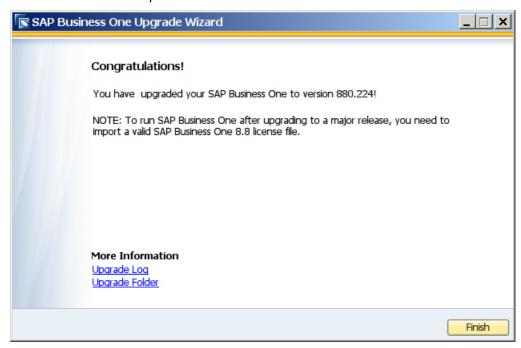


- 2. You can see one of the following windows as the restoration result:
  - The Restoration Result: Restored window appears if the restoration is successful. To complete the restoration, do the following:
    - i. In the Restoration Result: Restored window, choose the Next button.

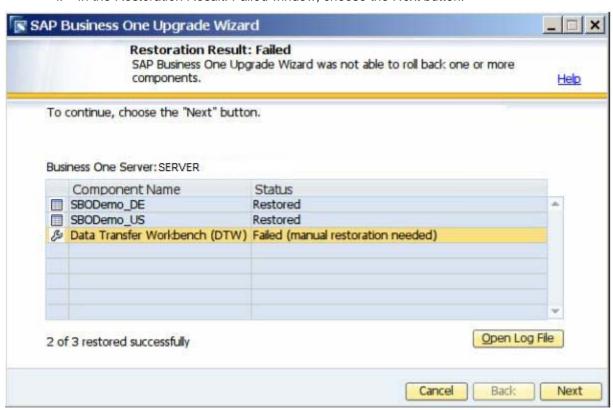




ii. In the *Congratulations* window, choose the *Finish* button to complete the restoration process.



- o If the restoration fails, the *Restoration Result: Failed* window appears. To complete the restoration, do the following:
  - i. In the Restoration Result: Failed window, choose the Next button.





ii. In the displayed window, choose the Finish button to exit.





If the restoration fails, to roll back SAP Business One to the version before the upgrade, you have to do a manual restoration.

# 5.3.4. Upgrading SAP Business One Client Workstations

After running the SAP Business One upgrade wizard, to complete the SAP Business One upgrade, you have to manually upgrade your SAP Business One client workstations. You can perform a client upgrade from either of the following:

- From the client workstation
- From the B1\_SHR folder

### 5.3.4.1. Upgrading from the Client Workstation

After you open your SAP Business One client following a server upgrade using the upgrade wizard, you need to perform an upgrade before you can log on to the client.

### **Procedure**

- To upgrade the SAP Business One client, choose Start → All Programs → SAP Business One
   → SAP Business One.
- 2. In the logon screen, enter your user ID and password.
- 3. In the System Message window shown below, do one of the following:





To start the upgrade of the client workstation, choose the OK button.
 After several minutes, the following windows appear:





o To exit SAP Business One without performing an upgrade, choose the Cancel button.



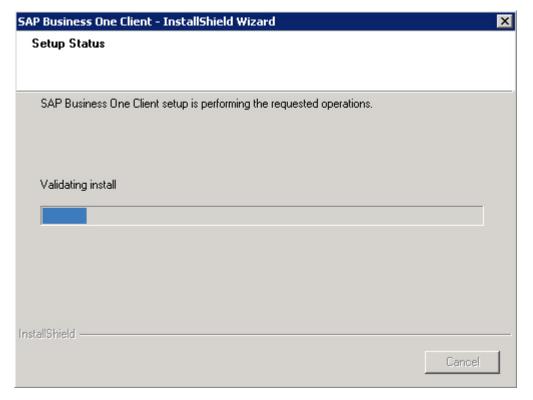
If you choose the Cancel button, you cannot log on to your SAP Business One client.

4. In the SAP Business One Client InstallShield Wizard window, a progress bar appears, showing the progress of the installation.

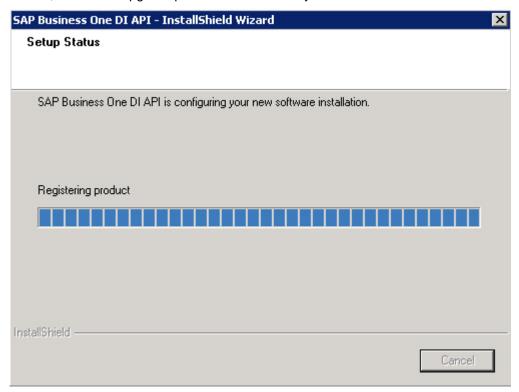


This is a silent upgrade. In other words, the upgrade proceeds automatically and you do not need to provide any input at this stage.





5. The SAP Business One DI API – InstallShield Wizard window appears. As with the previous screen, the DI API upgrade proceeds automatically.



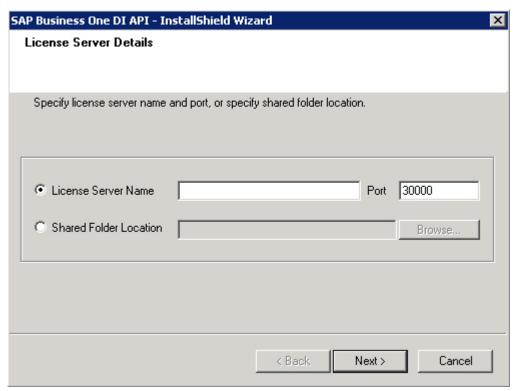


- 6. In the License Server Details screen, do one of the following:
  - Select the first radio button and enter your license server name and port.



We recommend that in the Port field you enter 30000.

 Select the Shared Folder Location radio button and choose the Browse button to specify the folder where the license server is located.





It may take a few minutes to finish the upgrade process.



For more information about installing the Crystal Reports software on the client computer, see Installing Crystal Reports for SAP Business One.

7. When the upgrade finishes, the upgraded SAP Business One client opens.

# 5.3.4.2. Upgrading from the B1\_SHR Folder

After performing a server upgrade with the upgrade wizard, you can upgrade each client workstation from the B1\_SHR folder. This folder is usually located in the directory path shown below:

C:\Program Files\SAP\SAP Business One Server\B1\_SHR

### **Procedure**

To search your computer for the B1 SHR folder:

- 1. Choose  $Start \rightarrow Run$ .
- 2. In the Run window, in the Open field, enter:

\\<computer name>\B1\_SHR



3. Choose the OK button. The B1\_SHR folder is displayed.



The client upgrade procedure from the B1\_SHR is the same as the client installation procedure. For full instructions, see <u>Installing the SAP Business One Client</u>.

# 5.3.5. Upgrading SAP Add-Ons

When you select the *Add-On* checkbox in the *Component Selections* window of the upgrade wizard, the following occurs:

- New releases of all SAP add-ons, including the Microsoft Outlook integration server installer add-on, are automatically registered on the SAP Business One server.
- New installers are uploaded to the server during the upgrade of the SBO-COMMON database.

Add-ons that were already installed and assigned to a company are re-registered with new releases and assigned to the same company.

Upon the next logon to a company assigned with add-ons, installers for the new add-on releases run automatically.

### 5.3.5.1. Upgrading the Intrastat Add-On

If you are upgrading an Intrastat add-on from an Intrastat version that is lower than 2007 A, proceed as follows:

- 1. Choose to copy the user-defined fields (UDFs) from the item master data and business partner master data to new UDFs in Intrastat 8.8.
- 2. Choose to keep in or delete from Intrastat 8.8 all existing UDFs of Intrastat versions lower than 2007 A.

# 5.3.6. Upgrading the Online Help

When you select the *Help* checkbox in the *Select Features* window of the upgrade wizard, new versions of the online help files are saved on the SAP Business One server.

The next time users access the online help on their client workstation, they can choose whether to download the new help version that was found on the server or whether to use the old help version.

# 5.3.7. Troubleshooting Upgrading SAP Business One with the Upgrade Wizard

- The shared folder B1\_SHR on the SAP Business One server computer must exist with the shared settings.
- In the Database Server Name field in the Database Server Logon window, if specifying the
  computer name does not work, use the IP address of the server computer. Be sure the format is
  consistent with what you have defined for the license server.
- When you perform an upgrade from SAP Business One 2005 A SP01 or 2007 A to SAP
  Business One 8.8, your previous SBO Mailer e-mail signature settings are automatically copied
  to the Common database and appear in the *E-Mail Settings* window, on the *Common E-Mail Signature* tab.

To access these settings, from the SAP Business One *Main Menu*, choose *Administration*  $\rightarrow$  *System Initialization*  $\rightarrow$  *E-Mail Settings*.



• If you install the Crystal Reports software after upgrading the SAP Business One client, execute the SAP Business One Crystal Reports Integration Package.exe file in C:\Program Files\SAP\SAP Business One\Crystal.



### Note

The folder path shown above may be different on your computer, depending on where you have installed SAP Business One and the Crystal Reports software. You can use the Microsoft Windows search facility on your computer to locate the folder and the file.

- To have SBO Mailer's signature copied after upgrade, do the following:
  - To open the SAP Business One Service Manager window, in the Windows system tray, double-click (SAP Business One Service Manager).
    - Alternatively, choose  $Start \rightarrow Programs \rightarrow SAP$  Business One  $\rightarrow$  Server Tools  $\rightarrow$  Service Manager.
  - b. In the *SAP Business One Manager* window, in the *Service* dropdown list, select *SBO Mailer*, and then choose the *Connection* button.
  - c. In the *Connection Settings* window, specify values in the *DB Type* and *DB Server* fields, and then choose the *OK* button.
  - d. Log off SAP Business One and log on to SAP Business One again. You will find that the signature was copied.

# 5.3.8. Troubleshooting Upgrading Add-Ons

When upgrading add-ons in an upgraded company whose server name was previously something like (local), you may encounter a message about installation failure.

SAP Business One has introduced the license security mechanism, and we do not recommend that you specify a server name with something like (local). In this case, during an upgrade, the user defines the server name as an IP address or a computer name. The application does not find the old (local) name of the upgraded company, which prevents old add-ons from being upgraded.

To solve this problem, proceed as follows:

- 1. Go to the ...\SAP Business One\ folder and locate the AddonsLocalRegistration.sbo file.
- 2. Change the server name of each related add-on to the new name specified in the license server.



- Old name: <Common ID="1" Name="(local)"/>
- New name: <Common ID="1" Name="MyServerName"/>

# 5.4. Upgrading Directly from Upgrade Folders

You can upgrade the components manually by running the files listed below from the upgrade folder.



For information about the upgrade package, see Downloading the Upgrade Package.

- Server components:
  - o Server Tools: ...\Packages\Server Tools\Setup.exe



- o Common Upgrade: ...\Packages\Upgrader Common\Upgrade.exe
- o Help Upgrade: ...\Packages\Upgrader Help\Upgrade.exe
- o Add-Ons Upgrade: ...\Packages\Upgrader AddOns\Upgrade.exe

### Client components:

- o Mail and Fax Service: ...\Packages\Server Tools\Setup.exe
- SDK: Manually uninstall and then upgrade using the SDK InstallShield installer under:
   ...\Packages\SDK\ Setup.exe
- Data Transfer Workbench Manually uninstall and then upgrade by using the Data Transfer Workbench InstallShield installer under: ...\Packages\Data Transfer Workbench\Setup.exe
- Microsoft Outlook integration add-on Manually uninstall and then upgrade using the DTW InstallShield installer under: ...\Packages\Outlook Integration standalone\Setup\_OIS.exe



# 6. Performing Database Maintenance Tasks

This section provides information about checking and maintaining your database system. Database activities depend on the nature of your organization's day-to-day work. There are many factors influencing system performance, such as disk space availability, the number of transactions occurring each day, and so on. It is essential to perform daily and regular checks to ensure the efficient operation of SAP Business One. System performance depends on the correct administration of the database.

This section also lists all the stored procedures quoted in the SAP Business One 8.8 application.

### 6.1. Database Server Administration

This section provides basic information about the SQL Server environment, the way a database management system stores and accesses the data, and the database administration tool. The information comprises the following topics:

- · Starting and stopping database services
- · Performing weekly tasks
- · Performing regular tasks
- Performing backups
- Performing restoration

# 6.1.1. Starting and Stopping Database Services

Occasionally, it is necessary to stop and start database services manually, for example, when you perform a complete backup of the database.

### **Procedure**

- To stop database services:
  - a. Verify that no clients are logged on to SAP Business One.
  - b. To open SQL Server Management Studio, choose *Start* → *All Programs* → *Microsoft SQL Server 2005* or *Microsoft SQL Server 2008* → *SQL Server Management Studio*.
  - c. In the *Object Explorer* window, right-click the database server computer on which your SAP Business One database is installed and choose *Stop*.
- To start database services:
  - a. To open SQL Server Management Studio, choose Start → All Programs → Microsoft SQL Server 2005 or Microsoft SQL Server 2008 → SQL Server Management Studio.
  - b. In the *Object Explorer* window, right-click the database server computer on which your SAP Business One database is installed and choose *Start*.



### Note

If you are not able to log on to SAP Business One, and the dialog box for choosing a company appears with an empty list, check whether SQL Server is running.



If you log off the SQL Server services, all user processes are terminated, but the database services keep running.

# 6.1.2. Weekly Tasks



## Recommendation

Perform the following tasks on a weekly basis, or more often if warranted by the database size and the volumes of daily or weekly transactions in SAP Business One.

### The tasks are:

- · Checking database consistency
- Running the Update Statistics command

### 6.1.2.1. Checking Database Consistency

A database consistency check performs a thorough check of the entire database. It examines all tables in the database to ensure that index and data pages are linked correctly and that indexes are in the correctly sorted order. It also checks that all pointers are consistent and that the data information on each page and page offset is reasonable. The database consistency check enables early recognition of problems and prevents escalations and possible loss of data.

### Ensure the following:

- Schedule consistency checks with the planning calendar.
- Run consistency checks on the weekends.
- Do not schedule any other task at the time of the consistency check run.



### Note

On the SQL Server level, the SAP Business One database consistency check executes the DBCC CHECKDB command, which locks user tables, indexes, and system tables throughout the run.

In addition, it is I/O intensive and, therefore, should not run during normal operations, but at times when the system load is low.

### 6.1.2.2. Running the Update Statistics Command

The UPDATE STATISTICS statement defines the storage requirements of tables and indexes as well as the value distribution of columns, and stores this information in the database catalog.

The *Optimizer* uses these values to determine the best strategy for executing SQL statements. Use the <code>sp\_updatestats</code> procedure on all user-defined tables in the required database.

When the update statistics statement is executed, the following information about the table is stored in the database catalog:

- Number of rows
- Number of pages used
- Size of indexes
- Value distribution within columns or indexes



# 6.1.3. Regular Tasks

Performing scheduled tasks is essential for ensuring database availability and minimizing the risk of data loss. Perform the following tasks on a regular basis, as determined by your database size and transaction volumes:

- Verify that the database server is running
- Verify that the backups run successfully
- Check the database
- Shrink the transaction log
- Monitor disk space

### 6.1.3.1. Verifying that the Database Server is Running

You must complete this task every morning. SAP Business One clients cannot work if the database server is not running.

### **Procedure**

Run the SAP Business One client and log on to your database server. If you can log on, the database server is running.

### 6.1.3.2. Verifying that Backups Run Successfully

Backups of your database are essential for recovering the SAP Business One system in case of failure. Use this procedure to verify that previous backups ran successfully.

### **Procedure**

- To open SQL Server Management Studio, choose Start → All Programs → Microsoft SQL Server 2005 or Microsoft SQL Server 2008 → SQL Server Management Studio.
- 2. Select the Management folder and check the SQL server logs.
- 3. Search for the last backup message.
- 4. Verify that the backup ran successfully and that the date fits the scheduled settings.

The following is an example of a successful backup message:

```
"Database backed up. Database: myDB, creation date(time): 2005/12/21(10:57:16), pages dumped: 502701, first LSN: 37211:18:108, last LSN: 37211:91:1, number of dump devices: 1, device information: (FILE=1, TYPE=DISK: {'E:\temp\bck\myDB'}). This is an informational message only. No user action is required."
```

### 6.1.3.3. Checking the Database

The SQL Server database uses disk space to store the database data files and the daily transaction log files. If you do not set up a schedule for the backup of the transaction log, the log file can grow too large, causing a decline in system performance. Ultimately, this can stop the database system.

The transaction log should not fill more than 60-70% of the total available size. If it regularly exceeds this level between two backups, you must save the transaction log more frequently. You can determine in SQL Server Management Studio that the data file and transactional log file are set to grow automatically.

In addition, check the utilization of table space and the content of error logs on a regular basis.



### **Procedure**

- 1. To check the size of the data file and the transaction log file, proceed as follows:
  - a. Open SQL Server Management Studio by choosing Start → All Programs → Microsoft SQL Server 2005 or Microsoft SQL Server 2008 → SQL Server Management Studio.
  - b. Select the database for which you want to check the transaction log size.
  - c. Right-click the selected database and choose *Reports* → *Standard Reports* → *Disk Usage*. In the right pane, you can see the report.
  - d. Verify that there is enough free space, based on your organization's needs, for both the data file and the transaction log.
- 2. To set grow options for database files, proceed as follows:
  - a. Open SQL Server Management Studio and select a database.
  - b. Right-click the selected database and choose Properties.
  - c. In the *Properties* window, from the menu on the left, choose *Files*.The database files appear in the right pane.
  - d. In the Autogrowth field, set a value according to your organization's needs.
- 3. To check error logs, proceed as follows:
  - a. Open SQL Server Management Studio.
  - b. Select the Management folder and check the SQL Server Logs folder.
  - c. Check for error messages and verify that no problems have occurred.

### 6.1.3.4. Shrinking the Transaction Log

Manually shrinking the transaction log file frees up disk space and minimizes the risk of data loss.

You can shrink it first virtually and then physically.

Shrinking the transaction log does not reduce the size of a physical log file. It removes enough inactive virtual logs to reduce the log file to the requested size.

### **Procedure**

- To open SQL Server Management Studio, choose Start → All Programs → Microsoft SQL Server 2005 or Microsoft SQL Server 2008 → SQL Server Management Studio.
- 2. Select the required system database.
- 3. Right-click the selected database and choose New Query.

The right pane displays the Query window.

4. In the *Query* window, enter the following command:

BACKUP LOG < sid > WITH NO LOG

Where:

<sid> = name of the database, for example, sbodemo us

Right-click anywhere on the query tab and choose Execute.

This statement reduces the size of the logical log. It removes the inactive part of the log without making a backup copy and truncates the log.



Specifying a backup device is unnecessary because the log backup is not saved.

After you back up the log using  $NO\_LOG$ , the changes recorded in the log are not recoverable. For recovery purposes, execute a manual backup of your database; see SAP Note  $\underline{557412}$ .

5. To reduce the size of the physical log file, enter the following command:

DBCC SHRINKFILE (<name\_logfile>, <size>)

Where:

<name logfile> = the logical name of the shrunk file, for example, sbodemo us log

<size> = the required size for the file in megabytes, expressed as an integer. If the size is not specified, DBCC SHRINKFILE reduces the size to the default file size, for example, 10 MB.

Right-click anywhere on the query tab and choose Execute.



In SQL Server, a DBCC SHRINKDATABASE or DBCCSHRINKFILE operation attempts to shrink the physical log file to the requested size (subject to rounding).

## 6.1.3.5. Monitoring Disk Space

We recommend that you regularly check the amount of free space available on the disk.

# **6.1.4. Backup**

This section provides an introduction to backups and information about the necessity of a backup strategy. Databases are always at risk of damage and it is vital to implement a security strategy.

To keep the risk of data loss low, ensure that you develop a backup strategy that suits your business and the requirements of your customers. An important factor to consider is the volume of data that you process each day. In case of data loss, you are required to retrieve this data manually, back to the time of your last backup.

With SAP Business One, we recommend backing up your application database regularly.



SAP Business One can save the configuration data only when you have write and read access to the user profile folder.

### 6.1.4.1. Backup Strategies

To choose the appropriate backup-and-restore strategy, you need to identify the requirements for the availability of your data. Your overall backup strategy should define the type and frequency of backups and the nature and speed of the hardware.

Consider the complexity of each strategy. Full backups are easy to implement. If you are considering backing up your transaction log as well, test all backup-and-restore procedures intensively.

When choosing your backup strategy, you can use the following methods:

- Full Backup of Your Data
  - In SQL Server, a full backup is a consistent copy of your database at a certain time. Since only used objects are saved, normally the copy is smaller than the original database. Full backups should be scheduled for a time when there is a low load on the database server.
- Backup of Transaction Log



The Transaction Log is a serial record of all the transactions that have been performed on the database since the transaction log was last backed up. With transaction log backups, you can recover the database to a specific point in time or to the point of failure.

The transaction log grows over time. If the transaction log exceeds a certain size, it can cause problems in SQL Server. To prevent those problems, we recommend doing regular backups of the transaction log, which will truncate the transaction log.

Backup of SAP Business One Subdirectories

To avoid data loss, you must back up regularly the following subdirectories of SAP Business One:

O ...\Program Files\SAP\SAP Business One\Attachments\
 O ...\Program Files\SAP\SAP Business One\Bitmaps\
 O ...\Program Files\SAP\SAP Business One\ExclDocs\

...\Program Files\SAP\SAP Business One\WordDocs\

These directories contain Word and Excel documents and bitmaps. To store the backed up directories, you can use a file archiving application.



### Recommendation

Test your backup and recovery procedures thoroughly. Testing helps to ensure that you have the required backups to recover from various failures, and that your procedures can be executed smoothly and quickly if a failure occurs.

The frequency of the backups depends on the following factors:

- Processed data volume
- Customer requirements
- Number of users

Consider how much time you would need to invest in retrieving your data manually after a data loss. After installing or upgrading SAP Business One, perform a full backup of the SBO\_DB database.

### 6.1.4.2. Backup Types

You can back up your data with SAP Business One Service Manager, the backup functionality of remote support platform for SAP Business One, or SQL Server Management Studio, using one of the backup types described below:

Full Backup Using SAP Business One Service Manager

This backup type suits small and medium-sized businesses. You can perform only full backups of your application database.

Advantages include easy setup and restoration, since you have to restore only the full backup.

Disadvantages include the following:

- o Requires large amount of space
- o Is time consuming
- o Is suitable for backing up once a day, which means that you can lose a whole day's data.

For more information, see Configuring Backup Services.





Set Recovery Model to the Simple Model option. We recommend using the backup service from SAP Business One Service Manager only when performing a simple recovery. Always back up the company database before performing a restore operation: during restore, the database reverts to the state it was in when the backup was created.

Full Backup Using SQL Server Management Studio

This backup type provides more functionality than the Service Manager and can save the backup directly to tape. If you save the backups on disk, make sure the backup is copied to another medium, such as another hard disc, DVD, or tape.

Do a manual backup of the files and directories of your hard disk.

Full Backup and Transaction Log Backup Using SQL Server Management Studio



To use SQL Server Management Studio to perform transaction log backups, you should have already selected the Full recovery model option.

The advantage of this type of backup is that the monitoring is partly automated and you can save the backups directly to a tape. You can also add alerts. Disadvantages include a relatively complicated setup and the need to manually back up the subdirectories of SAP Business One. However, SAP Business One does not fully support all of the features available with SQL Server Management Studio; therefore, if you require support from SAP in the future, your database backup may not be fully compatible.



- Full Recovery you can perform accumulated backups and move back to a specific point in time.
- Simple Recovery you can only back up the whole database; after the restoration, the database goes back to exactly the same point at which it was backed up.



# **A**CAUTION

SAP Business One backup service does not support a full recovery with its extra features, only the simple recovery. If you manage the backup for the database without the SAP Business One backup service, you can use the full recovery. But if any database issue requires investigation, SAP support might not be able to use these backups, because they were not generated with simple recovery mode and they might contain only the newly added data and not the full backup.



# **Example**

The following table summarizes the main options for each backup type:

Backup Type	Only Full Backup	Full Backup	Full Backup and Transaction Log Backup
Tool	SAP Business One Service Manager	Microsoft SQL Server Management Studio	Microsoft SQL Server Management Studio
Recovery model	Simple	Simple	Full
Installation effort	Low	Medium	High

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Backup Type	Only Full Backup	Full Backup	Full Backup and Transaction Log Backup
Monitoring effort	Medium	Medium	Medium
Backup destination	Disk	Disk or Tape	Tape or disk
Automatic file backup	Yes	Yes	No
Complexity	Low	Medium	High



### Note

SAP Business One Product Support only accepts backups on destination disks. If you back up on tape, you must first restore it from there, and back it up again, using a destination disk, prior to sending it to SAP Support.

## 6.1.4.3. Troubleshooting Backups

To ensure that your database backups are successful, check your server at regular intervals. Ensure that you have enough disk space on the server on which your database is stored. If you store your backup on another server, check that there is enough free space.

The basic checks include:

- Drive space
- Disk subsystem errors
- Tape drive errors
- Event Viewer
- Regular evaluation of your recovery and restore process

### **Procedure**

- 1. To check the disk space, proceed as follows:
  - a. In the Microsoft Windows *My Computer* window, right-click *Hard Disk Drives* and choose *Properties*. The *Properties* window appears.
  - b. Check the free space on your hard disk.

The free space you need on your hard disk depends on the volume of data you process each day.

Depending on the disk system and the tape drive, scan for disk errors at regular intervals. For more information, see your tape drive documentation.

- 2. To check if errors occurred in the operating system or in the database server, proceed as follows:
  - a. Choose  $Start \rightarrow Control\ Panel \rightarrow Administrative\ Tools \rightarrow Event\ Viewer.$ 
    - Events that occur in the system are stored in three different logs. Within these logs, events are classified as type: *Information*, *Warning*, or *Error*.



- Events that occur within the database server are stored in the Application folder. In the Source column of the application log, you can see the source application for a specific event.
- b. Double-click an event to display more information.
- In the Application Log, look for error events that may indicate backup failures.
   If you perform network backups, look for network errors in the System and Application logs.

### 6.1.5. Restore

If a failure damages the system, restoring the database restores the integrity of the data in most cases. Ideally, the downtime of the system will be minimal and no data should be lost. Develop a restore strategy that considers the maximum downtime allowed for your system, and estimate how much time you need to react to a system failure. Analyze the problem and take appropriate measures.

You may be required to change hardware or reinstall the operating system before restoring your database.

Ensure that an employee familiar with the restore procedures is available at all times. Testing of the restore procedures improves the chances of a successful and fast recovery of your data. We recommend doing test backups and test restores at regular intervals.

Restore the database in the following situations:

- Hardware failure
- Migration to a new hardware
- Logical errors
- Virus
- Testing

### 6.1.5.1. Restore Checklist

The steps below comprise a general procedure for restoring data. You may find that you do not need to perform each step for your particular case.

- 1. Analyze the problem.
- 2. If possible, save the current active transaction log.



### Note

If the database fails, but SQL Server is still available, the transaction log contains data that has not been saved yet. You can save it only if the following are not damaged:

- Hard disk on which the transaction log is saved
- Hard disk on which the executable files are located

If you cannot save the transaction log, you can only restore the changes that occurred after the backup of the last transaction log.

- 3. Use the necessary hardware.
- 4. Configure your database server.
- 5. Restore your last full backup.
- 6. Restore the transaction log.



- 7. Test all executed measures.
- 8. Release to productive operation.

### 6.1.5.2. **Saving the Current Transaction Log**



Before you start the restore process, verify that the installed service pack has not changed since the time of the backup.

### **Procedure**

- 1. Insert a new tape and, to open SQL Server Management Studio, choose Start → All Programs → Microsoft SQL Server 2005 or Microsoft SQL Server 2008 → SQL Server Management Studio.
- 2. Select the relevant database, right-click it, and choose the New Query menu.
- 3. In the Query window, run the following command:

BACKUP LOG < sid > TO < tape > WITH NO TRUNCATE, FORMAT

Where:

<sid> = name of the database, for example, sbodemo us

<tape> = your backup tape name (case sensitive)

- 4. After saving the transaction log file, you can change any damaged hardware and, if necessary, reinstall your operating system and your SQL Server database, as described in Installing SAP Business One.
- 5. Restore your last full database backup.

The database is now in the same condition as it was when the backup was carried out. After you restore the transaction logs, finished transactions are applied to the database again.

6. Perform a rollforward until the end of the transaction log.

The database is now in the same condition as it was at the time of the last transaction log backup. Because this condition is not consistent, perform a rollback for all unfinished transactions.

The <msdb> database stores the history of backups and of restore operations in the backup set and backup file of the tables. If the msdb database is available, the recovery is based on the saved history in msdb. For information, see Restoring Data When msdb Is Available.

If the system database msdb is not available, you have to restore it and reconstruct the history. For information, see Restoring Data When msdb Is Unavailable.



# Recommendation

To ensure a successful restore operation, you can test the restore process against a test database. If you use the transaction log file, we recommend testing all procedures thoroughly.

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### 6.1.5.3. Restoring Backup Files and Application Folders

To restore backup files and application folders, perform the following procedures:

- 1. Extract the files from the backup archive, including:
  - o Database backup .zip file
  - Application folder backup archive files
- 2. Extract the application folder backup archive files to separate folders.
- 3. Manually copy the extracted files back to the original shared folders.

## 6.1.5.4. Restoring Data When msdb Is Available

This procedure provides instructions for restoring your database when the database msdb is available. When you use the history function, the last backups are selected automatically.

### **Procedure**

- 1. To enable the system to restore the database, close SAP Business One.
- 2. To launch SQL Server Management Studio, choose Start → All Programs → Microsoft SQL Server 2005 or Microsoft SQL Server 2008 → SQL Server Management Studio.
- 3. Right-click the required database and choose  $Tasks \rightarrow Restore \rightarrow Database$ .
  - A list of performed backups appears. The last full backup and the subsequent transaction log backups are selected automatically.
- 4. In the Restore Database window, on the Options tab, select the following options:
  - Overwrite over existing database
    - To overwrite the existing database, select this option.
  - Preserve the replication settings
  - Prompt before restoring each backup
    - Prompt the user before restoring each backup to prevent a user from inadvertently restoring a backup.
  - Restrict access to the restored database
  - Restore database file as

In the Restore As column, change the path name if you are restoring the database on a different server.



# Note

To specify the .bu file, do the following:

- 1. In the *Microsoft SQL Server Management Studio* window, in the *General* tab, select the *From Device* radio button and choose the *Browse* button.
- 2. In the Specify Backup window, choose the Add button.
- 3. In the Locate Backup File <computer\_name> window, in the Files of Type dropdown list, select All Files.
- 4. In the hierarchy tree, specify the .bu file that you want to restore.
- 5. Choose the OK button.



5. To confirm, choose the *OK* button.

The system starts the database restore process.

6. Wait until the following message is displayed:

Restore of Database <databasename> completed successfully.

SQL Server copies the data from the backups, restoring the database and creating all dependent files.

## 6.1.5.5. Restoring Data When msdb Is Unavailable

This section provides instructions for restoring your database when the history in the database <msdb> is not available, for example, after you reinstall SQL Server. For this procedure, you need your last full backup and all subsequent backups of the transaction log.

### **Procedure**

- 1. To enable the system to restore the database, close SAP Business One.
- 2. To launch SQL Server Management Studio, choose Start → All Programs → Microsoft SQL Server 2005 or Microsoft SQL Server 2008 → SQL Server Management Studio.
- 3. Create a new database as follows:
  - a. Right-click the *Databases* folder and choose *Tasks* → *Restore* → *Database*.
     The *Restore Database* window appears.
  - b. Specify a name for your new database (the name of your company in SAP Business One).
- 4. Right-click the new database and choose *Tasks* → *Restore* → *Database*.
- 5. Select the Restore: From Device option and choose the Browse button.
- 6. In the Specify Backup window, choose the Add button.
- 7. In the *Locate Backup File* window, locate and select the file containing your last full backup. Choose the *OK* button.
- 8. In the *Specify Backup* window that opens, locate and select the file containing your last full backup.

Choose the OK button.

- 9. In the *Restore Database* window, select the required back sets and on the *Options* tab make the following settings:
  - Select the Overwrite the existing database checkbox.
  - Under the Restore As column, change the path, if necessary, for example, if you are restoring the database on a different server where the path name does not exist.
  - In the Recovery completion state area, select the descriptor Leave database nonoperational but able to restore additional transaction logs.

Choose the *OK* button. The system starts restoring the database.

10. Wait for the following message:

Restore of Database <sid> completed successfully.

Continue to the procedure for restoring transaction logs.



### 6.1.5.5.1. Restoring Transaction Logs

### **Procedure**

- Right-click the database you want to restore and choose Task → Restore → Transaction Log.
- 2. Select the Restore: From Device option and choose the Browse button.
- 3. In the Specify Backup window, choose the Add button.
- 4. In the *Locate Backup File* window that appears, locate and select the file containing your last full backup.

Choose the OK button, and do the same in the Specify Backup window that opens.

- 5. In the Restore Database window, on the Options tab, make the following settings:
  - Select Overwrite the existing database.
  - In the Recovery completion state area, choose the option Leave database not operational but able to restore additional transaction logs.
  - Choose the OK button.
     The system starts to restore the database.
- 6. Repeat this procedure for all transaction logs.

When you reach the last transaction log, in the *Recovery Completion State* pane, select the option: Leave database operational. No additional transaction log can be restored.

### 6.1.5.6. Troubleshooting Restore

The only way to verify that you can do so is to regularly restore backups using the same medium that you would use in disaster recovery.



At regular intervals, perform the procedures that would take place in case of a disaster, including the restore process of full and transaction log backups.

### 6.2. Data Transfer Workbench for SAP Business One

SAP Business One implementations require you to move data from legacy systems to the new SAP Business One system. Business data (such as customers, vendors, and products) must be available in the new system before it goes live.

Data Transfer Workbench provides a wizard that imports new data into SAP Business One and updates existing data. To simplify the preparation of data for the import, SAP provides predefined data file templates. Data Transfer Workbench records import activities so you can track the data migration process.

For more information, see the Data Transfer Workbench online help file in the document resource center at <a href="http://service.sap.com/smb/sbocustomer/documentation">http://service.sap.com/smb/sbocustomer/documentation</a>.

The data migration process comprises the following tasks:

- 1. Extracting data files from your legacy system
- 2. Cleaning data
- 3. Mapping data and converting data



- 4. Importing data into SAP Business One
- 5. Checking the results of the import

### 6.3. Stored Procedures

The stored procedures listed below are all used in the SAP Business One 8.8 application. The first table is for the SBO-COMMON database and the second one is for the company database.



You must not rename or remove any of the items in the list; otherwise, errors could occur when running SAP Business One.

### **SBO-COMMON Database Procedures**

SBO- COMMON Procedures
ClearEnumValues
DeleteAllEnumsAndClasses
DeleteAllObjects
DeleteAllPropertyDefs
DeleteClassDef
DeleteDependentProperties
DeleteEnumType
DeleteMetaObject
DeleteMetaProperty
DeleteMetaRelation
DeletePropertyDef
InsertClassDef
InsertClassDefId
InsertEnumType
InsertEnumTypeId
InsertEnumValue
InsertMetaObject
InsertMetaProperty
InsertMetaRelation
InsertPropertyDef
InsertPropertyDefId
NumberPropertyDefs
NumberRelations



SBO- COMMON Procedures
OBSSp_GetNextExecFromSchedule
OBSSp_GetServiceRecord
OBSSp_UpdateScheduleRecord
OBSSp_UpdateServiceExec
RGSp_UpdateInstance
RGSp_UpdateLicense
TmSp_AliasUpdate
TmSP_CheckDiskSpace
TmSp_CopyCompany
TmSp_GetCompList
TmSP_GetDbSizeByDrives
TmSp_GetServerTime
TmSp_GetUsers
TmSp_Installer_CreateTmSp
TmSp_Installer_SetFieldValue
TmSp_RefreshCompList
TmSp_RestoreCompany
UpdateClassDef
UpdateEnumType
UpdateMetaObject
UpdateMetaProperty
UpdateMetaRelationSeqNo
UpdatePropertyDef
UpdatePropertyDefSeqNo
ClearEnumValues
DeleteAllEnumsAndClasses
DeleteAllObjects
DeleteAllPropertyDefs
DeleteClassDef
DeleteDependentProperties
DeleteEnumType
DeleteMetaObject



SBO- COMMON Procedures	
DeleteMetaProperty	
DeleteMetaRelation	
DeletePropertyDef	
InsertClassDef	

### **Company Database Procedures**

Company Database Procedures
Company Database Procedures
_TmSp_AliasUpdate_OUSR
_TmSp_AliasUpdateAfter
_TmSp_AliasUpdateBefore
_TmSp_ControlAccountUpgrade_OCRD
_TmSp_ConvertGrpLine_OACT
_TmSp_ExpnsUpdateOnDocs
_TmSp_FormattedSearchUpdate
_TmSp_MthDate_Update_JDT1
_TmSp_RestoreIsCommited_OIBT
_TmSp_SetCategoryAtOFPR
_TmSp_SetLineNumAtADO3
_TmSp_SetLineNumAtDOC3
_TmSp_SetLineNumAtDOC5
_TmSp_SetLineSeqAtDOC4
_TmSp_SetLineSeqAtPMN5
_TmSp_SetUniqueDocEntryAtOCRD
_TmSp_ShekelUpdate
_TmSp_UpdateCreateDateOnOINM
_TmSp_UpdateDoubleName
_TmSp_VariableUpdate_OUQR
_TmSp_VatSumCalc
SBO_SP_PostTransactionNotice
SBO_SP_PostTransactionSupport
SBO_SP_TransactionNotification
SBO_SP_TransactionSupport



Company Database Procedures
TmSp_adding_To_OITW
TmSp_AddSqlUser
TmSp_ChooseCIN4Correction
TmSp_ChooseINV4Correction
TmSp_ConGrpLine_OACT_recurs
TmSp_ConvertGrpLine_OACT
TmSp_CorrActReport
TmSp_CorrActReport_BP
TmSp_CorrActReport_BP_Split
TmSp_CorrActReport_Split
TmSp_DragOn
TmSp_DragOnPk
TmSp_FifoGetINM_Records
TmSp_GetDocVatTotals
TmSp_GetMaxRange
TmSp_GetOpenRCTs
TmSp_GetOpenRINs
TmSp_GetUsers
TmSp_GetWDD
TmSp_Installer_SetFieldValue
TmSp_OpportAnalysis
TmSp_OpportAnalysis_CRD
TmSp_OpportAnalysis_ITM
TmSp_OpportAnalysis_SLP
TmSp_OutboxSync
TmSp_PicknPackCreateTempTable
TmSp_Purch_An_Crd_Det_Y
TmSp_Purch_An_Crd_Grp_M
TmSp_Purch_An_Crd_Grp_Y
TmSp_Purch_An_Crd_Sng_M
TmSp_Purch_An_Crd_Sng_Y
TmSp_Purch_An_Itm_Det_Y



Company Database Procedures
TmSp_Purch_An_ltm_Grp_M
TmSp_Purch_An_ltm_Grp_Y
TmSp_Purch_An_ltm_Sng_M
TmSp_Purch_An_ltm_Sng_Y
TmSp_Purch_An_Slp_Sng_M
TmSp_Purch_An_Slp_Sng_Y
TmSp_RebuildAcctMatch
TmSp_RebuildMatchHistory
TmSp_Replace_Table
TmSp_Sales_An_Crd_Det_Y
TmSp_Sales_An_Crd_Grp_M
TmSp_Sales_An_Crd_Grp_Y
TmSp_Sales_An_Crd_Sng_M
TmSp_Sales_An_Crd_Sng_Y
TmSp_Sales_An_ltm_Det_Y
TmSp_Sales_An_ltm_Grp_M
TmSp_Sales_An_ltm_Grp_Y
TmSp_Sales_An_ltm_Sng_M
TmSp_Sales_An_ltm_Sng_Y
TmSp_Sales_An_Slp_Sng_M
TmSp_Sales_An_Slp_Sng_Y
TmSp_SetBalanceByJdt
TmSp_SetBgtAccumulators_ByJdt
TmSp_SetGlStamp
TmSp_SetVendorDeductPercent
_TmSp_AliasUpdate_OUSR
_TmSp_AliasUpdateAfter
_TmSp_AliasUpdateBefore
_TmSp_ControlAccountUpgrade_OCRD
_TmSp_ConvertGrpLine_OACT
_TmSp_ExpnsUpdateOnDocs
_TmSp_FormattedSearchUpdate



Company Database Procedures
_TmSp_MthDate_Update_JDT1
_TmSp_RestoreIsCommited_OIBT
_TmSp_SetCategoryAtOFPR
_TmSp_SetLineNumAtADO3
_TmSp_SetLineNumAtDOC3
_TmSp_SetLineNumAtDOC5
_TmSp_SetLineSeqAtDOC4
_TmSp_SetLineSeqAtPMN5
_TmSp_SetUniqueDocEntryAtOCRD
_TmSp_ShekelUpdate
_TmSp_UpdateCreateDateOnOINM
_TmSp_UpdateDoubleName
_TmSp_VariableUpdate_OUQR
_TmSp_VatSumCalc
SBO_SP_PostTransactionNotice
SBO_SP_PostTransactionSupport
SBO_SP_TransactionNotification
SBO_SP_TransactionSupport
TmSp_adding_To_OITW
TmSp_AddSqlUser
TmSp_ChooseCIN4Correction
TmSp_ChooseINV4Correction
TmSp_ConGrpLine_OACT_recurs
TmSp_ConvertGrpLine_OACT
TmSp_CorrActReport
TmSp_CorrActReport_BP
TmSp_CorrActReport_BP_Split
TmSp_CorrActReport_Split
TmSp_DragOn
TmSp_DragOnPk
TmSp_FifoGetINM_Records
TmSp_GetDocVatTotals



Company Database Procedures
TmSp_GetMaxRange
TmSp_GetOpenRCTs
TmSp_GetOpenRINs
TmSp_GetUsers
TmSp_GetWDD
TmSp_Installer_SetFieldValue
TmSp_OpportAnalysis
TmSp_OpportAnalysis_CRD
TmSp_OpportAnalysis_ITM
TmSp_OpportAnalysis_SLP
TmSp_OutboxSync
TmSp_PicknPackCreateTempTable
TmSp_Purch_An_Crd_Det_Y
TmSp_Purch_An_Crd_Grp_M
TmSp_Purch_An_Crd_Grp_Y
TmSp_Purch_An_Crd_Sng_M
TmSp_Purch_An_Crd_Sng_Y
TmSp_Purch_An_ltm_Det_Y
TmSp_Purch_An_Itm_Grp_M
TmSp_Purch_An_ltm_Grp_Y
TmSp_Purch_An_Itm_Sng_M
TmSp_Purch_An_ltm_Sng_Y
TmSp_Purch_An_Slp_Sng_M
TmSp_Purch_An_Slp_Sng_Y
TmSp_RebuildAcctMatch
TmSp_RebuildMatchHistory
TmSp_Replace_Table
TmSp_Sales_An_Crd_Det_Y
TmSp_Sales_An_Crd_Grp_M
TmSp_Sales_An_Crd_Grp_Y
TmSp_Sales_An_Crd_Sng_M
TmSp_Sales_An_Crd_Sng_Y



Company Database Procedures
TmSp_Sales_An_Itm_Det_Y
TmSp_Sales_An_Itm_Grp_M
TmSp_Sales_An_Itm_Grp_Y
TmSp_Sales_An_ltm_Sng_M
TmSp_Sales_An_ltm_Sng_Y
TmSp_Sales_An_Slp_Sng_M
TmSp_Sales_An_Slp_Sng_Y
TmSp_SetBalanceByJdt
TmSp_SetBgtAccumulators_ByJdt
TmSp_SetGlStamp
TmSp_SetVendorDeductPercent
TmSp_UpdatingOIT

# 6.4. Getting Support

We recommend that you assign a contact person who can deal with issues concerning SAP Business One. This contact person should follow the support process described below. If a problem cannot be solved using this process, contact SAP support.



### Note

Before you contact SAP support, check the version information of your SAP Business One application.

To view the version number, from the SAP Business One Help menu, choose About.

You can get support from your partner using either the Customer Portal or the Hotline.

The Hotline is a number provided by your partner that you can call to get support during official support hours. The partner support staff logs the problem on SAP Service Marketplace. The partner support staff try to solve your problem. If they are unsuccessful, they forward the problem to the SAP Support team.



### Recommendation

You can log your problem message in SAP Business One Customer Portal at <a href="http://service.sap.com/smb/sbocustomer/documentation">http://service.sap.com/smb/sbocustomer/documentation</a>. This lets you track the status of the message. Your SAP Business One partner can provide a user name for this portal. There you can find more information about how to create a message and track its status.



# 6.4.1. Using Online Help and SAP Notes

If you have a question or problem concerning SAP Business One, check the online help.

If that does not provide an answer, search for corresponding SAP Notes, as follows:

### **Procedure**

- 1. Log on to the SAP Business One portal as follows:
  - o If you are a partner, log on to https://service.sap.com/smb/sbosupport.
  - o If you are a customer, log on to <a href="https://service.sap.com/smb/sbocustomer">https://service.sap.com/smb/sbocustomer</a>.
- 2. Choose the SAP Notes option.

You can either display a Note directly by providing the number of the Note, or you can search for a Note by entering key words. Think about the keywords to use, and choose the application area

The application area for SAP Business One starts with "SBO".



# Recommendation

The following example illustrates the difference between a usable and an unusable search.

### Problem Message

"The performance of the SAP Business One program is not acceptable. Executing all operations takes a long time. The problem occurs only on one front-end."

Use: Key words Performance and SAP Business One. Specify the component sbo-bc\*

Do not use: Phrases such as SAP Business One runs long or SAP Business One is too slow.

# 6.4.2. Using the Support Desk

You can use the support desk to search for known solutions in the SAP support database on SAP Service Marketplace. The support desk establishes a direct link to SAP Service Marketplace, which stores all the known solutions to known problems.

For more information, see the online help for SAP Business One on the SAP Business One product DVD or in the documentation area of SAP Business One Customer Portal at https://service.sap.com/smb/sbocustomer/documentation.

### **Prerequisites**

You have a valid S user ID number.

An S user has authorization to access online support functions offered by SAP. The S user ID information is shipped with the SAP Business One product. If this information is missing or incorrect, contact your SAP Business One partner.

### **Procedure**

To find solutions on SAP Service Marketplace, proceed as follows:

- 1. From the SAP Business One menu bar, choose Help → Support Desk → Find a Solution. The Support Desk – Find a Solution window appears.
- 2. In the Search Term field, enter one or more words for which to search. You can search for key words or phrases of up to 60 characters.

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3. Choose the *Find* button.

The system calls up the connection to SAP Service Marketplace.

4. Specify your S-user ID and password.

The system defaults your search criteria and the application area to SBO\* and starts the search.



## 7. Managing Security in SAP Business One

Your security requirements are not limited to SAP Business One, but apply to your entire system landscape. Therefore, we recommend establishing a security policy that addresses the security issues of the entire company. This section offers several recommendations to help you meet the security demands of SAP Business One.

Your security solution should cover the following aspects:

- Technical Landscape: Provides an overview of the technical components and communication paths used in SAP Business One.
- User Management and Authentication: Provides system access to legitimate users only and prevents identity impersonation.
- Database Authentication: To improve the security of database access, a strong password definition mechanism is introduced.
- Data Integrity: To improve data integrity in the database, a new setting is defined to allow specified SAP Business One users to run read-only queries on the company database through SAP Business One's query editors.
- SAP Business One Authentication and Authorization: Describes how to restrict access to the SAP Business One database.
- Network Security: Supports your communication needs without allowing unauthorized access to your network.
- Application Security: Restricts access to users with the necessary permissions.
- Security Solutions for Microsoft SQL Server and Database Tips: Provides recommendations for ensuring the security of Microsoft SQL Server.
- Data Storage Security: Provides recommendations for secure data storage in SAP Business
  One.

Once you have established your security policy, we recommend that you dedicate sufficient time and allocate ample resources to implement it and maintain the level of security that you require.

## 7.1. Technical Landscape

Figure 6 below is a representation of the security workflow for SAP Business One.

In SAP Business One 8.8, database credentials are saved in the license server, which serves as the security server.

Database credentials are obtained by supplying SAP Business One logon credentials for authentication against the license server. Upon successful authentication, the connection to the databases can be established using database credentials from the license server.



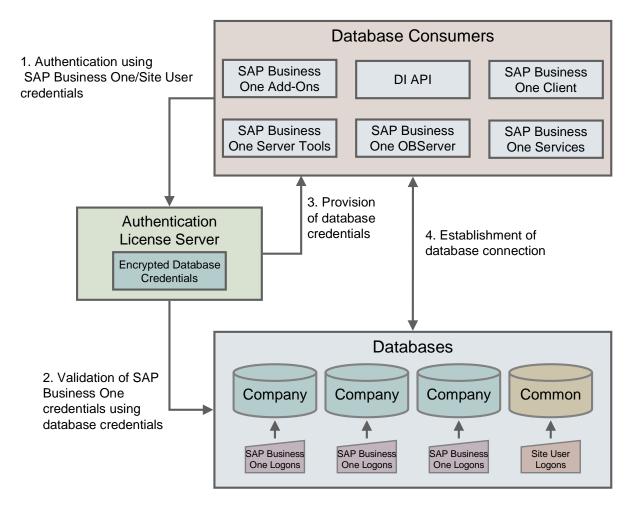


Figure 6: SAP Business One Security Landscape

## 7.2. User Management and Authentication

This subsection provides an overview of how SAP Business One supports an integrated approach to user administration and authentication.

## 7.2.1. User Management

This section provides an overview of user types and user administration within SAP Business One.



#### **7.2.1.1.** User Types

It is necessary to specify different security policies for different types of users. For example, your policy may specify that individual users who perform tasks interactively have to change their passwords on a regular basis, but not users who process job runs. Therefore, SAP classifies these types of users in the application as follows:

#### • Site user:

This user is automatically defined in SAP Business One. It is not a company user type that can log on to SAP Business One, but serves as site-level authentication for performing the following activities:

- Creating new companies
- Installing or upgrading SAP Business One server
- o Importing or exporting the license configuration file
- Assigning read-only users
- Configuring security settings on the license server
- Registering databases on the license server

In SAP Business One, the privileged user types are the following:

• SAP Business One company superusers

When you create a company, a predefined user named *manager* exists in the system. Due to the password policy, you must change the password of the *manager* user at the first logon.

The responsibilities of a superuser entail:

- Defining users in companies and setting user permissions
- o Configuring password policy at the company level
- Upgrading a company
- SAP Business One company regular users

You can define company regular users according to different business role requirements.

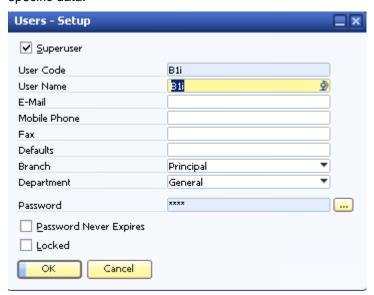
The responsibilities of a regular user are to perform the relevant business work in the SAP Business One application.



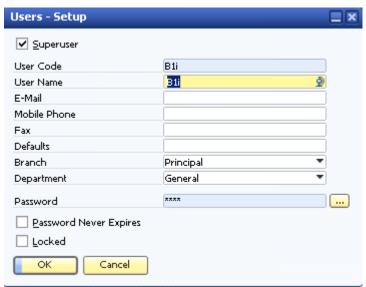
#### 7.2.1.2. User Administration

This section describes how to add, remove, or lock an SAP Business One user in the application.

- To add a user in SAP Business One, proceed as follows:
  - a. In the SAP Business One *Main Menu*, choose *Administration*  $\rightarrow$  *Setup*  $\rightarrow$  *General*  $\rightarrow$  *Users*.
  - b. In the *Users Setup* window, click in the toolbar and specify the required user-specific data.

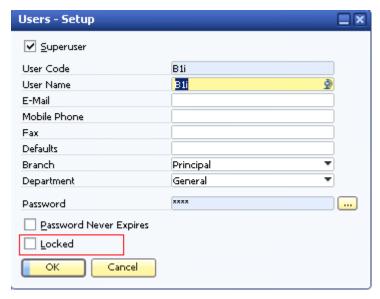


- c. Choose the *Update* button and then the *OK* button.
- To remove a user in SAP Business One, proceed as follows:
  - a. In the SAP Business One *Main Menu*, choose *Administration*  $\rightarrow$  *Setup*  $\rightarrow$  *General*  $\rightarrow$  *Users.*
  - b. In the *Users Setup* window, in the *User Code* field, enter an asterisk (\*) and in the *Choose From List* window, select the user you want to delete.
  - c. Right-click anywhere in the window and choose Remove.





- d. Choose the OK button.
- To lock or unlock a user in SAP Business One, proceed as follows:
  - a. In the SAP Business One *Main Menu*, choose Administration  $\rightarrow$  *Setup*  $\rightarrow$  *General*  $\rightarrow$  *Users*.
  - b. In the *Users Setup* window, in the *User Code* field, select the user you want to lock or unlock.



- c. In the *Users –Setup* window, do the following:
  - To lock a user, select the *Locked* checkbox.
  - To unlock a user, deselect the *Locked* checkbox.

#### 7.2.2. User Authentication

As standard practice, SAP Business One and the database authenticate users by their user accounts and passwords.

You can change your password at any time. In addition, the application checks the password validity of each logon attempt according to the selected security level.

If you are required to change your password, the application displays the *Password Expiration* window. You must change the password to log on.

The new password must comply with the settings of the selected security level, containing at least:

- x characters
- x lowercase
- x uppercase
- x digits
- x nonalphanumeric

An example password is displayed.

The application saves passwords in the database in encrypted form. The last n passwords are also encrypted. When appraising a new password, the application first encrypts it and then compares it with the saved ones.



The password policy defines global guidelines and rules for password settings, such as the following:

- Time interval between password changes
- Required and forbidden letters and characters
- Minimum required number of characters
- · Number of logon attempts before the system locks the user account

The password policy improves the security of SAP Business One and enables administrators to apply the required security level for their organization.



Only a superuser can change a security level.

SAP Business One supports the following approaches to raising the security level of user authentication:

- Increase the complexity of the password.
- Increase the frequency of password changes.

For information about how to configure it in SAP Business One, see the online help document: *Password Administration*. You can find the online help documentation in SAP Channel Partner Portal at <a href="http://channel.sap.com/sbo/documentation">http://channel.sap.com/sbo/documentation</a>.

Customers can find the document in SAP Business One Customer Portal at http://service.sap.com/smb/sbocustomer/documentation.

#### 7.3. Database Authentication

The default user name of the database administrator is sa and it has full authorization. Therefore, you must assign a strong sa password, even on servers that are configured to require Microsoft Windows Authentication. This ensures that a blank or weak sa password is not exposed.

A strong password is the first step to securing your system. A password that can be easily guessed or compromised using a simple dictionary attack makes your system vulnerable. A strong password has the following characteristics:

- Contains alphabetic, numeric, and special characters
- Is at least seven characters in length
- Is NOT a common word or name
- Does NOT contain a name or user name
- Is significantly different from previous passwords

To set the password for the sa logon, proceed as follows:

- 1. Log on to the server as a Domain or local Windows Administrator.
- From Microsoft Windows, choose Start → Programs → Microsoft SQL Server 2005 or Microsoft SQL Server 2008 → SQL Server Management Studio. Upon first logon, in the Connect to Server window, enter the server name (if required) and under Authentication, select Windows Authentication.



We recommend that you create another super user account with the same authorization as the sa user.



- 3. In the *Object Explorer* window, under the SQL Server instance, expand *Security* → *Logins*. Right-click sa and choose the *Properties* menu.
- 4. On the General page, enter and confirm the new password for the sa login.
- 5. Choose the OK button and close the SQL Server Management Studio window.



To prevent dictionary attacks, you should create a substitute user for **sa** that can take daily responsibility for the SQL Server database assessment.

For more information, see <u>Changing the sa Login Password and Creating an Alternative</u> User.

To create a superuser account for maintaining administration tasks for SAP Business One, proceed as follows:

- 1. From Microsoft Windows, choose *Start* → *Programs* → *Microsoft SQL Server 2005* or *Microsoft SQL Server 2008* → *SQL Server Management Studio*.
- 2. In the SQL Server Management Studio Object Explorer window, choose Security → Logins.
- 3. Right-click the *Logins* folder and choose *New Login*. The *Login New* window appears.
- 4. On the General tab, select SQL Server authentication and enter a strong password.
- 5. On the Server Roles tab, select dbcreator and securityadmin.
- 6. On the *User Mapping* tab, select the db\_owner role for all SAP Business One databases (SBO-COMMON and all companies), and select the public role for the *<msdb>* database.

Choose the OK button.

## 7.4. Data Integrity

To improve data integrity in the database and ensure that no changes to the database are made during the running of the application, a setting is defined to allow specified SAP Business One users to run read-only queries on the company database through SAP Business One's query editors. Queries can be restricted to read-only statements. This means user permissions are read only for SQL executions, and querying the database would be done using a read-only user.

## 7.4.1. Setting Read-Only User Permissions

To prevent any user with access to the query generator from performing any commands on the SAP Business One company database, you can limit Query Generator to read-only queries. You can use the read-only db user feature to enable it.



Adding read-only users is irreversible. Changing the type of such a user in the database leads to errors in SAP Business One.

To create or maintain read-only user permissions in SAP Business One, proceed as follows:

- 1. To create a new user in the SQL Server database, choose Start → All Programs → Microsoft SQL Server 2005 or Microsoft SQL Server 2008.
  - In the Connect to Server window, specify values in the Server name and Authentication fields, and then choose the Connect button.
- In Microsoft SQL Server Management Studio, choose Security → Login, right-click the Login folder and choose New Login.



- 3. In the *Login-New* window, on the *General* tab, specify a name for the read-only user you want for the SQL Server database.
- 4. On the User Mapping tab, do the following:
  - a. In the *Users mapped to this login* table area, select the *Map* checkbox for SBO-COMMON and the company databases.
  - b. In the *Database role membership for*: SBO-COMMON table, select the following checkboxes:
    - db datareader
    - db\_denydatawriter



**CAUTION** 

If you select the  $db\_writer$  checkbox, you then cannot set a read-only user in SAP Business One.

c. In the *Users mapped to this login* table area, select the company database that you want to assign the read-only user and perform step b again.



The read-only user can only be applied to new companies that are created later on.

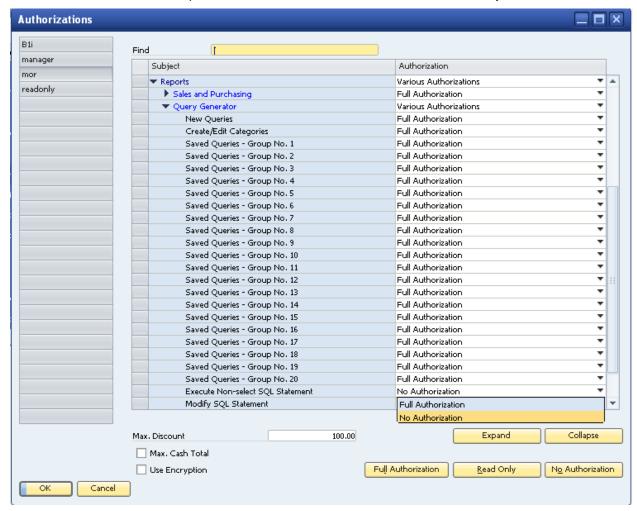
- 5. Log on to SAP Business One with a super user.
- 6. To access the *Read-Only DB User* window, in the SAP Business One *Main Menu*, choose *Administration* → *Setup* → *General* → *Security* → *Read-Only DB User*.
- 7. In the Site User Logon window, specify the site user password and choose the OK button.
- 8. In the Read-Only DB User window, specify values in the DB User ID and DB Password fields.



- 9. Choose the *Update* button, and then choose the *OK* button.
- 10. To set the permission, choose *Administration* → *System Initialization* → *Authorizations* → *General Authorizations*.



- 11. In the Authorizations window, do the following:
  - a. Choose Reports → Query Generator → Execute Non-select SQL Statement.
  - b. In the Authorization dropdown list, choose No Authorization for the read-only user.





### 7.4.2. Registering New Databases in SAP Business One

SAP Business One now allows registering new databases only from the license server.



The license server should not be accessible physically to any users except the people who own the site user password.

Keep the license server computer in a place not easily accessed by anyone.

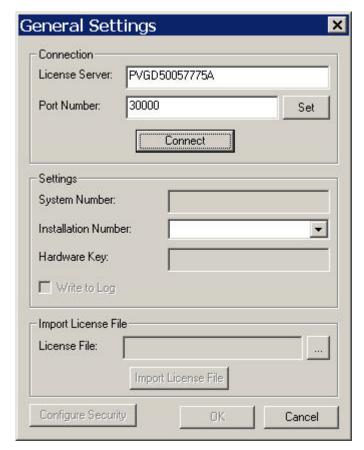
To register new databases, proceed as follows:

- To open SAP Business One Service Manager, choose Start → All Programs → SAP Business One → Server Tools → Service Manager.
- 2. In the SAP Business One Service Manager window, in the Service dropdown list, select License Manager.
- 3. Choose the Settings button.



3. In the General Settings window, choose the Configure Security button.





4. In the *Validate Site User Password* window, specify the site user password. Choose the *OK* button.



- 5. In the *Connection Settings* window, specify the following fields:
  - o DB Type: From the dropdown list, select your database server type.
  - o DB Server. Specify the database server name or the IP address of the database server.



Make sure that the server name does not contain any of the following special characters:

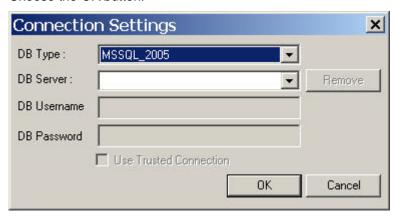
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Make sure that you align the computer name with the name format of your license server. To check or correct your computer name, proceed as follows:

- i. Choose  $Start \rightarrow Control\ Panel \rightarrow System$ .
- ii. In the System Properties window, select the Computer Name tab.
- iii. In the Computer name field, check the computer name.
- iv. To correct the computer name, choose the Change button.
- v. In the *Computer Name/Domain Changes* window, enter a new name for the computer and choose the *OK* button..
- o DB Username: Specify the user ID of the database.
- o DB Password: Specify the password of the database.

Choose the OK button.





We recommend that you **not** select the *Use Trusted Connection* checkbox to use the Microsoft NT authentication, because it is much weaker than SQL Server authentication mode.

Be aware of the following limitations of Windows NT authentication:

- Windows NT-trusted in SAP Business One is a server level configuration: all users on the same SAP Business One server can use NT-trusted to connect to SQL Server if the checkbox is selected.
- You have to maintain each computer to be added to the domain for NT-trusted authentication mode, while SQL Server database authentication shares the database user (such as sa) on the same SAP Business One server.

For more information about configuring trusted connections, see <u>Troubleshooting Security</u>.



#### 7.5. SAP Business One Authentication and Authorization

SAP Business One has introduced a mechanism to protect the database from easy changes through direct access.

The advantages of restricting access to the SAP Business One database are:

- End users are not exposed to database credentials and so cannot change the databases directly, which protects the databases from being changed or attacked.
- Database credentials are stored in the license server and end users can access the database only after the application performs a successful site user authentication through the license server.

#### 7.5.1. Restricting Access to the SAP Business One Database

SAP Business One has a function that hides database access credentials from SAP Business One end users.

In SAP Business One 8.8, the license server is the central repository for credentials information, including the database user ID and password (one for all SAP Business One users).

The database credentials are stored safely in the license server, with additional encryption.

The workflow procedure is as follows:

- Database consumers such as SAP Business One client, DI, and Services have to provide the SAP Business One credentials (SAP Business One user ID and password) to authenticate against the license server.
- Following successful authentication, the license server supplies its credentials and SAP Business One uses them to connect.

## 7.6. Network Security

We strongly recommend using SAP Business One in trusted environments only (corporate LAN with firewall protection).

## 7.6.1.SSL Encryption

To secure the TCP/IP communication channel between the database client and the database server, you can implement SSL encryption. The advantage of applying security communication is that it prevents SAP Business One application data, including the database credentials, from being exposed.

SAP Business One fully supports SQL SSL. We recommend that you implement SSL in SAP Business One without making configuration changes in SAP Business One. For more information, see <a href="http://support.microsoft.com/kb/316898">http://support.microsoft.com/kb/316898</a> or contact your IT administrator.



Note

Using SSL encryption may degrade network performance. The SSL encryption solution for Microsoft SQL Server requires a certificate, which is time limited and needs yearly renewal.

For information about Microsoft SSL encryption guidelines, see <a href="https://www.msdn.microsoft.com">www.msdn.microsoft.com</a> and search for the following topics:

- Net-Library Encryption
- Client Net-Libraries



#### 7.6.2. Communication Channels

TCP provides the communication channels between the following:

- SAP Business One server ⇔ SAP Business One clients
- SAP Business One server ⇔ SAP Business One license server
- SAP Business One server ⇔ the agent of remote support platform for SAP Business One

The default communication port is 1143.

The default port of the SAP Business One license server is 30000 for license communication and 30001 for the license naming service.

#### 7.7. Application Security

SAP Business One provides features to ensure that unauthorized access to the application does not occur.

#### 7.7.1. Password Encryption

In SAP Business One, a strong algorithm is used for data encryption and decryption. The site user ID and password are encrypted and saved on the license server.



Note

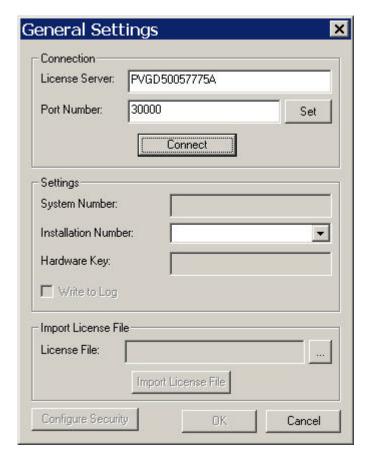
You should set a site user password that is at least as strong as that defined in company password policy, and change it frequently.

The site user password can be changed through a *License Manager* configuration, providing a previous password or authenticating the database credentials to prove that whoever is changing the site password is at least at a database administration level.

To change the site user password, proceed as follows:

- To open SAP Business One Service Manager, choose Start → All Programs → SAP Business One → Server Tools → Service Manager.
- 2. In the SAP Business One Service Manager window, in the Service dropdown list, select License Manager. Choose the Settings button.
- 3. In the General Settings window, choose the Configure Security button.





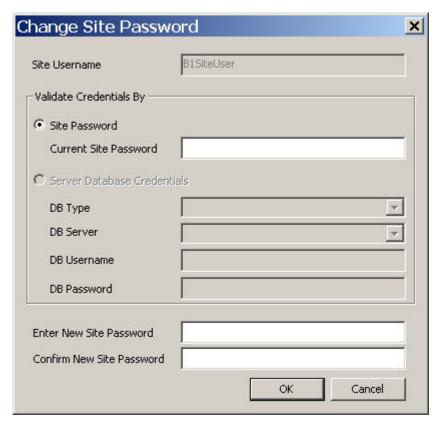
4. In the Validate Site User Password window, choose the Change Site Password button.



- 5. In the *Change Site Password* window, specify the following fields:
  - o Current Site Password
  - Enter New Site Password
  - o Confirm New Site Password

Choose the OK button.





6. In the displayed dialog window, choose the *OK* button.

#### 7.7.2.B1\_SHR Folder Permissions

The SAP Business One server installation process creates the B1\_SHR folder, which contains the SAP Business One client setup files.

Operating System	User	SBO_SHR Permission
Microsoft Windows 2003 Server, Microsoft Windows 2003 R2,	Power User	Modify and Write
	User	Read and execute
Microsoft Windows 2003 Server Small Business,		List folder contents
Microsoft Windows XP and Microsoft Windows Vista		Read

## 7.7.3. Query Generation and the Query Wizard

The query wizard tool is designated for *Select* sentences only and must not be used for any kind of update operation. In SAP Business One, you can use the read-only user configuration to serve the purpose.

The query generator can run customized queries on the SAP Business One database. To protect your data, we recommend that you make sure users have the appropriate permissions.



If you have to restrict a user from updating the database, use the feature introduced in the section <u>Setting Read-Only User Permission</u>. However, the data results returned by the query generator are not filtered according to the user's authorization.



The highest level of security is a *No Authorization* setting for the query generator and the query wizard, which is the default setting.

#### 7.7.4. Add-On Access Protection

When you install an add-on, SAP Business One creates a unique digital signature using the MD5 technique (message-digest algorithm). SAP Business One identifies the add-on by validating its digital signature.

# 7.8. Security Solutions for Microsoft SQL Server and Database Tips

We recommend that you take the following actions to ensure the security of your Microsoft SQL Server.

#### 7.8.1. Upgrading the SQL Server

We recommend upgrading the SQL server to the latest service pack. Furthermore, administrators should regularly consult the SQL Server Security Center at <a href="https://www.microsoft.com">www.microsoft.com</a>.

#### 7.8.2. Steps to Securing Microsoft SQL Server

Since SAP Business One is a two-tier application, much of the application security depends on the database server security and on the authorization mechanism. Be aware that users can access the database using tools other than SAP Business One and, therefore, can modify the logon information. To secure your database, we recommend adhering to Microsoft security guidelines. For more information, see the Microsoft documents at <a href="https://www.microsoft.com">www.microsoft.com</a>.

## 7.8.3. Revoking Guest Access to the msdb Database

- To open SQL Server Management Studio, choose Start → All Programs → Microsoft SQL Server 2005 or Microsoft SQL Server 2008.
- 2. In the *Connect to Server* window, specify values in the *Server name* and *Authentication* fields, and choose the *Connect* button.
- 3. In the SQL Server Management Studio Object Explorer window, choose Databases → System Databases → msdb → Security → Users.
- 4. In the structure, right-click the Guest user and choose Delete.

## 7.9. Data Storage Security

The security of the data saved in SAP Business One is generally the responsibility of the database provider and your database administrator. As with your application infrastructure, most of the measures that you should take depend on your strategy and priorities.



There are a few general measures, as well as database-specific measures, that you can take to increase the protection of your data. Details are provided in the following sections:

- Exporting the Configuration File
- Importing the Configuration File
- Configuration Logs and User Settings

## 7.9.1. Exporting Configuration Files

To secure your data, we recommend that you export your security configuration file right after you finish installing the license server and the SAP Business One server.

The configuration file contains the following important information:

- · Site user password
- Database information
- Read-only database user information
- Algorithm information

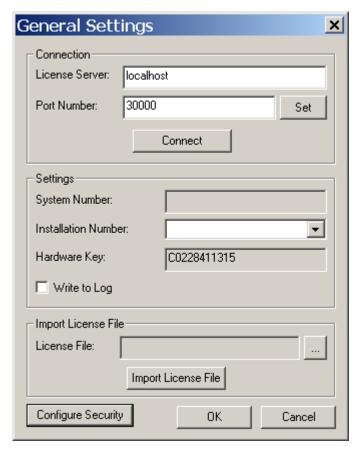
To export the security configuration file, proceed as follows:

- To open SAP Business One Service Manager, choose Start → All Programs → SAP Business One → Server Tools → Service Manager.
- 2. In the SAP Business One Service Manager window, in the Service dropdown list, select License Manager and choose the Settings button.



3. In the General Settings window, choose the Configure Security button.



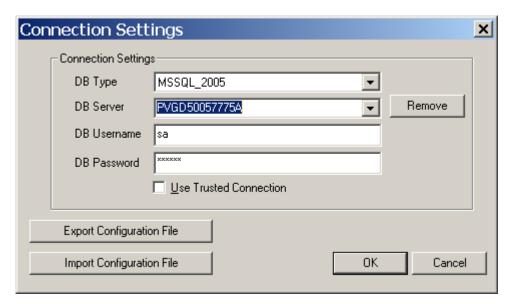


4. In the *Validate Site User Password* window, specify the current site user password and choose the *OK* button.



5. In the Connection Settings window, choose the Export Configuration File button.





- 6. In the Browse window, do the following:
  - Select a destination folder for saving the file.
  - Specify a file name.

Choose the OK button.

7. In the message dialog box, choose the *OK* button.



The site user password is required if you later import the security configuration file to restore the configured security settings. Thus, **keep a record** of the site user password when you are exporting the configuration file, especially if you want to change the site user password after the configuration file is exported.

## 7.9.2. Importing Configuration Files

If your license server crashes or is corrupted, you must set up a new license server. After the new license server is started up, to restore all the security settings you had before, you can import the security configuration file.

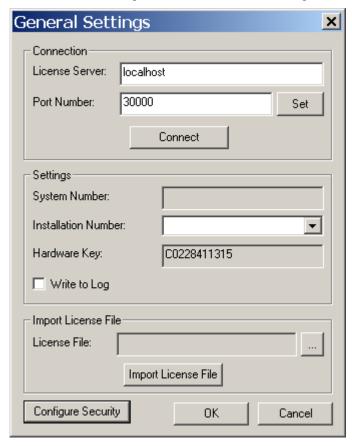
- To open SAP Business One Service Manager, choose Start → All Programs → SAP Business One → Server Tools → Service Manager.
- 2. In the SAP Business One Service Manager window, in the Service dropdown list, select License Manager.

Choose the Settings button.





3. In the General Settings window, choose the Configure Security button.

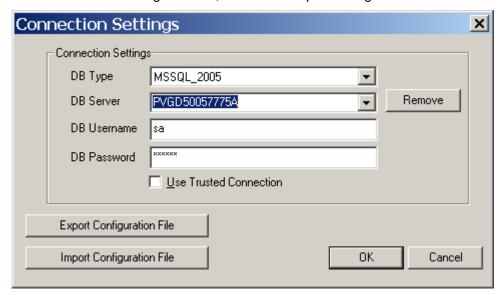


4. In the *Validate Site User Password* window, specify the current site user password and choose the *OK* button.



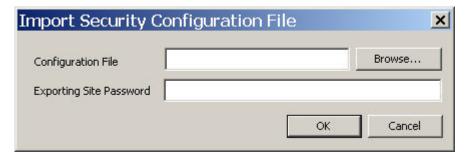


5. In the Connection Settings window, choose the Import Configuration File button.



- 6. In the Import Security Configuration File window, do the following:
  - Choose the Browse button to navigate to your local file directory where the file is saved.
  - In the Exporting Site Password field, specify the site user password you had when the configuration file was exported.

Choose the OK button.



#### 7.9.3. Configuration Logs and User Settings

In SAP Business One, configuration changes are logged in files formatted as: xxx.pidxxxxx (xxx after pid can be the date, such as 20090325, so that you can find the latest log file) under %UserProfile%\Local Settings\Application Data\SAP\SAP Business One\Log\BusinessOne.

The configuration changes include the following:

- Adding/Removing users
- · Changing a user to a superuser / non superuser
- Changing user passwords
- Changing user permissions
- Changing password policy
- Changing company details





To find the logs containing changes to company details, do the following:

- i. In the SAP Business One *Main Menu*, choose *Administration* → *System Initialization* → *Company Details*.
- ii. In the menu bar, choose  $Tools \rightarrow Change Logs$ .

However, the following configurations cannot be logged:

- · Changing data ownership authorizations
- Changing data ownership exceptions
- · Changing license settings
- · Setting Read-Only DB users

If you fail to log on to SAP Business One, the log is recorded in the Event Viewer.

As of SAP Business One 2007, any specific user settings are saved in a file named: b1-current-user.xml under C:\Documents and Settings\XXX(user id)\Local
Settings\Application Data\SAP\SAP Business One. In this situation, if a user changes his or her settings in SAP Business One, the changes are saved in this folder and do not affect other users' settings.

#### 7.10. Troubleshooting Security

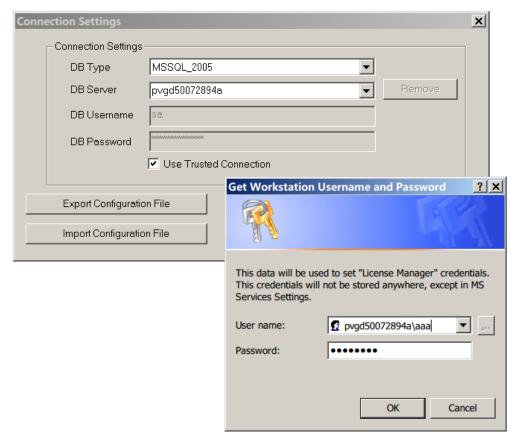
The NT-trusted support is only for SAP Business One backward compatibility.

To configure NT-trusted, you have to provide Windows credentials, as shown in the screen below.

Make sure of the following prerequisites:

- o The Windows user has permission to start the SAP Business One license service.
- The Windows user has been registered in SQL Server.





Make sure that your Microsoft Windows account has rights to log on to the license server, because after the NT-trusted policy is configured, the license server service runs with this NT-trusted account.

To check the configuration of your Microsoft Windows account on the computer where your license server is running, proceed as follows:

- a. Choose  $Start \rightarrow Control\ Panel \rightarrow Administrative\ Tools \rightarrow Local\ Security\ Policy.$
- b. In the Local Security Policy window, choose Local Policies  $\rightarrow$  User Rights Assignment.
- c. In the *User Rights Assignment* window, select the *Log on as a service* item and double-click the item.
- d. In the Log on as a service Properties window, choose the Add User or Group button.
- e. Check if your Microsoft Windows account is in the *Enter the object names to select* (examples): field, and if not, add it and try again.
- To check or correct your computer name, which is necessary to install Microsoft SQL Server 2005 or 2008, proceed as follows:
  - a. Choose  $Start \rightarrow Control\ Panel \rightarrow System$ .
  - b. In the System Properties window, select the Computer Name tab.
  - c. In the Computer name field, check the computer name.
  - d. To correct the computer name, choose the Change button.
  - e. In the *Computer Name/Domain Changes* window, specify a new name for the computer and choose the *OK* button.



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