

Sage 100 ERP

Installation and System
Administrator's Guide

This version of the software has been retired

sage

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Chapter 1

Introduction

How to Use This Manual

This manual provides the information necessary for installing Sage 100 ERP. This manual also contains information and troubleshooting tips on the configuration of the various operating systems and environments in which the Sage 100 ERP software is supported. The instructions contain detailed technical information on the configuration of operating systems and environments.

The screens used in this manual are from Sage 100 Advanced ERP; similar screens appear in Sage 100 Standard and Premium ERP. Note that Business Insights Reporter and the eBusiness Manager, Electronic Reporting, Job Cost, Material Requirements Planning, Payroll, TimeCard, and Work Order modules are not available for Sage 100 Premium ERP.

For a complete listing of operating system requirements, see the Supported Platform Matrix on the Support page on the Sage Customer Portal at: <https://customers.sagenorthamerica.com>

Graphic Conventions

The following icons are used throughout this manual to indicate different types of information.



The **NOTE** symbol is followed by additional information about a topic.



The **WARNING** symbol is followed by information to help you avoid costly mistakes.



The **INFORMATION** symbol is used when a chapter does not apply to all three Sage 100 ERP products. The symbol is followed by the product(s) to which the section does apply.

Text Conventions

The following table describes the text conventions used in this manual.

Text Convention	Explanation
Menus	<p>Menus are shown in this format: Select menu > menu task name.</p> <p>Examples:</p> <ul style="list-style-type: none"> • Select File menu > Change Company. • Select General Ledger Budget menu > Budget Maintenance.
Bold font	<p>Indicates text entered at a field or text selected at a field.</p> <p>Examples:</p> <ul style="list-style-type: none"> • At the Value field, type a search value, such as 01, for the lookup. • In the Filter window, to delete a filter, select <none> at a filter's Column field.
<i>Italic font</i>	<p>Indicates references to other manuals.</p> <p>Example:</p> <ul style="list-style-type: none"> • For more information, refer to your <i>Getting Started Guide</i>.

Installation Overview

Read this guide completely before installing or upgrading your Sage 100 ERP system. Before installing your Sage product, your hardware must be properly configured, and the appropriate operating system software must be fully installed and operational. *Incorrect configurations of protocols and services running on the server can cause major delays in the implementation of your Sage 100 ERP system.*

The installation procedures in this document address Windows® environments. For a complete listing of operating system requirements, see the Supported Platform Matrix on the Support page on the Sage Customer Portal at: <https://customers.sagenorthamerica.com>

In some parts of this guide, the Sage 100 ERP Integration Engine is referred to simply as the Integration Engine.

Contents of Installation Programs

The Sage 100 ERP installation programs are divided into two separate self-extracting executable files. The Sage 100 ERP 2013 file contains the following:



NOTE

The Sage 100 ERP installation programs include setup programs for three Sage 100 ERP products; however, you will be able to install only the product for which your product key is valid.

- Installation programs for Sage 100 ERP. To access these programs, select a product from the Autorun screen.
- Documentation for Sage 100 ERP products, which includes this guide, as well as the *Getting Started Guide* and the *Customer Upgrade Guide*. To access the documentation, select a product from the Autorun screen, and then click Documentation from the product screen.
- Installation programs for other products that integrate with Sage 100 ERP, such as Sage Advisor and Sage 100 ERP Intelligence Reporting.
- Productivity applications, such as SAP Crystal Reports® Designer and Acrobat Reader.

The Sage 100 ERP 2013 CRM file contains installation programs and documentation for Sage CRM.

General Installation Tips

Keep the following in mind when installing your Sage 100 ERP system:

- If your serial number includes leading zeros, be sure to include all zeros when typing the number.
- When specifying where to install Sage 100 ERP, do not nest a destination folder in folders named MAS90 or SOA.
- Installing SAP Crystal Reports Designer is optional; however, it must be installed on the workstation if you want to create new reports and modify existing ones. For more information, see *Installing SAP Crystal Reports Designer* on page 68.
- You can install modules that have not been purchased and access most of them for 45 days before you are required to purchase and register them. The 45-day trial period begins the first time the module is accessed. The eBusiness Manager, Custom Office, Electronic Reporting, and Visual Integrator modules must be registered before they can be accessed. Modules that have been purchased are automatically selected for installation.
- The Customer Relationship Management module and the Sage 100 ERP Integration Engine are installed along with Sage 100 ERP.
- If you are upgrading, all modules installed on your source system must be installed on the destination installation. After you have upgraded to the current version, you can uninstall modules that are no longer needed.
- If you are upgrading and your company data contains credit card information, the Sage Exchange Desktop will be automatically installed during conversion. This program is used to validate the merchant key and terminal ID to use when processing credit cards. For more information, read the *Customer Upgrade Guide* which is available in the Documentation folder within the Sage 100 ERP installation program.



WARNING

Do not integrate your purchased modules with nonregistered modules unless you plan to purchase those modules.

Chapter 2

Installing Sage 100 Standard ERP

Read this guide completely before installing and setting up Sage 100 Standard ERP. A series of procedures must be completed for new installations. For more information, read the *Getting Started Guide*, which is available in the Documentation folder within the Sage 100 ERP installation program.

When upgrading a system, there are additional pre and post-installation instructions for converting to the current version. For more information, read the *Customer Upgrade Guide*. To access this guide, select a product from the Autorun screen, and then click Documentation on the product screen.

Installation Requirements

The computer where you are installing Sage 100 Standard ERP should have a minimum of 2 GB of free disk space, depending on the number of applications to be installed. Verify that you have 2 GB of disk space available for System Setup and Library Master, plus an additional 15 to 25 MB for each module to be installed and the company data.

All prerequisites must be installed before installing Sage 100 Standard ERP; any prerequisite that is not on your system will be installed by the Sage 100 ERP 2013 installation program.

For information on the specific operating system requirements, see the Supported Platform Matrix on the Support page on the Sage Customer Portal at: <https://customers.sagenorthamerica.com>

Pre-Installation Tasks

Perform these tasks before beginning the installation process.

 **WARNING**
If you are upgrading from a prior version, you must install Sage 100 ERP version 2013 to a new location and perform a parallel installation.

- If you are upgrading from a prior version, read the *Customer Upgrade Guide*, which is available on the Sage Customer Portal and in the Documentation folder within the Sage 100 ERP installation program.
- Verify that you have your Sage Download Notification e-mail, which includes the serial number, customer number, user key, and product key, which are required to install Sage 100 Standard ERP for the correct number of users and to register the modules. This information is also available on the Sage Customer Portal under Products > Details.
- Depending on your Internet connection speed, downloading the installation files may take several hours; therefore, you may want to download the files in advance. For more information, see step 3 on page 9.
- Test and validate all of the hardware and network configurations using the following resources, which can be found on the Support page on the Sage Customer Portal at: <https://customers.sagenorthamerica.com>
 - The Supported Platform Matrix
 - The Integrated Solutions Compatibility Matrix
 - The latest service packs and program updates
- If you will be installing the Sage Web Engine, verify that IIS is installed and running.
- If a prior version of the Sage Web Engine is installed for the eBusiness Manager module, back up any customized templates in the IW folder to another location, and then uninstall the Sage Web Engine. After version 2013 of the Sage Web Engine is installed, move the templates back to the IW folder.

- Third-party applications used with Sage 100 Standard ERP may require a drive mapping or UNC path to the server where the data files are located. This drive must be mapped to a share point on the server above the MAS90 folder. Although Sage 100 ERP itself does not require a logical drive mapping, any application written to access the data files (including third-party or Sage developer partner applications) must have a valid logon to the server and may require a logical drive mapping or UNC path.
- If you are installing on a Windows server, review Considerations for Installing on a Windows Server on page 12.
- If you are installing on a peer-to-peer network, review Considerations for Installing on a Windows Peer-to-Peer Network on page 14.
- If you are installing Sage CRM and using the Integrated Logon for SQL Server, create a Windows user account with permissions to access both the server where Sage 100 Standard ERP will be installed and the SQL Server database. This account is used by the Integration Engine to send data between the Sage 100 Standard ERP server and the Sage CRM server. You are asked to provide this information during the Sage 100 Standard ERP installation. For more information, see Installing Sage CRM on page 38.

Installation Process



WARNING
If you install Sage 100 ERP on a server with an unsupported operating system, Sage 100 ERP Customer Support will be unable to assist you if you encounter any problems.

Run the Sage 100 Standard ERP installation wizard to install a new instance of Sage 100 Standard ERP or to upgrade your system from a prior version. The installation wizard guides you through the installation.

To install Sage 100 Standard ERP

- 1 Log on to the server where Sage 100 ERP will be installed using an account with administrator rights. You must run the Setup program on the Windows server, not from a workstation connected to the server.
- 2 Close down other programs. Do not close antivirus, antispyware, and script-blocking software unless it is actually interfering with the installation.

- 3 Download the Sage 100 ERP 2013.exe file from the location specified in your Download Notification e-mail from Sage.
 - a When prompted to run or save the file, click Save.
 - b Save the file to a folder in the root directory of your computer, for example: C:\temp.
 - c When the Download Complete window appears, click Run. This starts the download process. Depending on your Internet connection speed, the download may take several hours to complete.
- 4 Click the Sage 100 ERP 2013.exe file to extract the installation files. The Sage 100 ERP 2013 folder, which contains the installation files, will be extracted.
- 5 In the Sage 100 ERP 2013 folder, click Autorun.exe.
- 6 On the Autorun screen, click Sage 100 Standard ERP, and then click Install Sage 100 Standard ERP to begin the installation.
- 7 Follow the steps in the installation wizard to install a new instance or upgrade an existing installation.



NOTE

Saving the file in a location that results in a long location path may result in errors when extracting the installation program.



NOTE

When specifying where to install Sage 100 ERP, do not nest a destination folder in folders named MAS90 or SOA.



NOTE

If a message appears asking you to restart the computer, you must do so before the installation will be fully functional.

The time required to install depends on the number of modules selected. If several modules are installed, this process may take several minutes.

If you receive a message stating that no installation of Adobe Acrobat Reader was detected, click OK to continue with the installation. To install the application, on the Sage 100 Standard ERP screen, click Productivity Applications, and then click Install Acrobat Reader.

After the Sage 100 ERP installation is completed, the Upgrade Checklist automatically appears if Acrobat Reader is installed. To manually access this document, click Documentation on the Sage 100 Standard ERP screen.

Post-Installation Tasks

Perform the following tasks after installing Sage 100 Standard ERP.

- 1 If you are upgrading, refer to the *Customer Upgrade Guide*, which is available in the Documentation folder within the Sage 100 ERP installation program.
- 2 Install any Sage 100 ERP 2013 product updates available on the Sage Customer Portal at: <https://customers.sagenorthamerica.com>
- 3 To run Microsoft Script links, you must have the Microsoft Windows Script Host processor on your system. For information on installing the Microsoft Windows Script Host processor, refer to the Microsoft Download Center Web site.
- 4 Install Sage CRM if you plan to use that product (see Installing Sage CRM on page 38).
- 5 Run Workstation Setup on all workstations that will access the Sage 100 Standard ERP installation (see Workstation Setup on page 11).
 - Workstations used to process credit card transactions or set up credit card processing require a working Internet connection.
 - Add www.sageexchange.com to the list of trusted websites for any workstations that will be using the Sage Exchange Desktop to set up credit card related data.
- 6 Install optional productivity applications, such as SAP Crystal Reports Designer, on each workstation as needed. Installing SAP Crystal Reports Designer is necessary only if you plan to create or modify reports.
- 7 If you are installing Federal and State eFiling and Reporting, you must install it on each Sage 100 ERP workstation. For more information, see Installing Federal and State eFiling and Reporting on page 74.
- 8 If you are using third-party 64-bit applications, such as the 64-bit version of Microsoft Office, that need to access Sage 100 ERP data, install the 64-bit ODBC driver from the Productivity Applications menu.

- 9 Create companies and activate modules (see *Creating and Activating Companies* on page 80).
- 10 Create roles and user codes, and set up system preferences (see *Setting Up Roles and Users for Security* on page 86).
- 11 Set up the modules for your companies. If you are converting your existing business management system to Sage 100 Standard ERP, assemble the data you need to set up each module. For more information, refer to your *Getting Started Guide*.

Workstation Setup



NOTE

Run the Workstation Setup program after every Sage 100 Standard ERP software upgrade.

The Workstation Setup wizard installs the required software, common programs, and Help files to the workstations that will access the Sage 100 Standard ERP installation. The workstation installation wizard copies all of the necessary Dynamic Link Libraries, ActiveX controls, and other components to the local Windows\System folder and sets up the initialization files for the workstation.

Workstation Setup Requirements

For workstation operating system requirements, see the Supported Platform Matrix on the Support page on the Sage Customer Portal. The workstation hard drive should have a minimum of 750 MB of free disk space. An additional 1 GB of disk space is required to install SAP Crystal Reports Designer; 1.5 GB is recommended. Installing SAP Crystal Reports Designer is necessary only for creating and modifying forms and reports.

Workstations used to process credit card transactions or set up credit card processing require a working Internet connection.

Add www.sageexchange.com to the list of trusted websites for any workstations that will be using the Sage Exchange Desktop to set up credit card related data.

If you have installed Sage 100 Standard ERP on only one computer, it is not necessary to run Workstation Setup to access Sage 100 Standard ERP on that computer; Workstation Setup is necessary only for additional workstations that will be accessing the installation.

Running Workstation Setup

To facilitate ease of installation, the Workstation Setup program should be run from the server where Sage 100 Standard ERP is installed.

WARNING

The Workstation Setup wizard will run only if it is executed from a mapped drive letter. Do not run the Workstation Setup wizard from a UNC path or through Network Neighborhood.

To run Workstation Setup

- 1 Close down other programs. Do not close antivirus, antispyware, and script-blocking software unless it is actually interfering with the installation.
- 2 Map a drive letter to the share point above the MAS90 folder where the Sage 100 Standard ERP server component is installed.
- 3 Use Windows Explorer to attach to the server share point where Sage 100 Standard ERP is installed, and locate the MAS90\Wksetup folder.
- 4 Double-click Autorun.exe to run the program; it takes a few seconds to launch.
- 5 Follow the steps in the Workstation Setup wizard.

NOTE

If a message appears asking you to restart the computer, you must do so before the installation will be fully functional.

If you receive a message stating that no installation of Adobe Acrobat Reader was detected, click OK to continue with the installation. To install Acrobat Reader, start the Sage 100 ERP installation program, and select your product from the Autorun screen. Click Productivity Applications, and then click Install Acrobat Reader.

To create a Workstation Setup DVD, copy the contents of the MAS90\WKSETUP folder to the root folder of a blank DVD. For detailed information on creating a DVD, refer to your DVD burner software.

Considerations for Installing on a Windows Server

The following are special considerations to be aware of before installing or upgrading Sage 100 Standard ERP on a Windows network.

For the hardware and service pack requirements for both the workstations and server, see the Supported Platform Matrix located on the Support page on the Sage Customer Portal at: <https://customers.sagenorthamerica.com>

- Perform the installation on Sage 100 Standard ERP directly on the server.
- When installing, close down all other visible desktop applications (for example, Microsoft Office applications). Do not shutdown antivirus and antispyware software unless it is actually interfering with the installation.
- At the server, create a share at a parent folder above the MAS90 folder. Do not create the share directly at the MAS90 folder. Every workstation will be required to map a drive to this share point.
- Each workstation must recognize the network drive on which Sage 100 Standard ERP is loaded using a mapped drive letter. Using Universal Naming Convention (UNC) paths is not supported.

Example:

Correct

F:\Mas90\Home\Pvxwin32.exe

Incorrect

\\Servername\Sharename\Mas90\Home\Pvxwin32.exe

If company data is moved to a different data location using Library Master Company Maintenance, the same drive letter must be used from all workstations to point to the alternate folders, including the server if it is used as a workstation.

Make sure the drive mapping is created so it remains persistent after restarting the workstation. Generally this is accomplished either through a logon script or by selecting the Reconnect at Logon check box in the Map Network Drive window on the workstation.

Considerations for Installing on a Windows Peer-to-Peer Network



NOTE
Installing on a peer-to-peer network is supported only for Windows XP Professional.

For the hardware and service pack requirements for both the workstations and server, see the Supported Platform Matrix located on the Support page on the Sage Customer Portal at: <https://customers.sagenorthamerica.com>

- The server and all workstations must be using the same operating system.
- When running with more than two users, the workstation acting as the server should be dedicated. Running Sage 100 Standard ERP on the server concurrently while other users are accessing Sage 100 Standard ERP from their own workstations may result in instability and performance issues.
- A maximum of five users is supported when running in the peer-to-peer environment.
- At the server, create a share at a parent folder above the MAS90 folder. Do not create the share directly at the MAS90 folder. Every workstation will be required to map a drive to this share point.

If Windows XP Professional has Simple File Sharing enabled, when creating the share, select the Allow Network Users to Change My Files check box. To verify if Simple File Sharing is enabled, select Windows Start menu > My Computer. Then select Tools menu > Folder Options. Click the View tab and scroll to the bottom. Verify that the Use Simple File Sharing (Recommended) check box is selected.

Each workstation must recognize the network drive on which Sage 100 Standard ERP is loaded using a mapped drive letter. Using Universal Naming Convention (UNC) paths is not supported.

Example:

Correct

F:\Mas90\Home\Pvxwin32.exe

Incorrect

\\Servername\Sharename\Mas90\Home\Pvxwin32.exe

If company data is moved to a different data location using Library Master Company Maintenance, the same drive letter must be used from all workstations to point to the alternate folders, including the server if it is used as a workstation.

If you need to use the same drive letter on the server as on the workstation because you have moved company data to an alternate location, create a drive mapping to the share point on the server. Do not use the SUBST command.

Chapter 3

Installing Sage 100 Advanced ERP

Read this guide completely before installing and setting up Sage 100 Advanced ERP. A series of procedures must be completed for new installations. For more information, read the *Getting Started Guide*, which is available in the Documentation folder within the Sage 100 ERP installation program.

When upgrading a system, there are additional pre- and post-installation instructions for converting to the current version. For more information, read the *Customer Upgrade Guide*. To access this guide, select a product from the Autorun screen, and then click Documentation on the product screen.

Installation Requirements

Sage 100 Advanced ERP uses the TCP/IP protocol for all communications between the workstation and server. To run Sage 100 Advanced ERP, TCP/IP must be properly configured on both the Windows Server and all workstations that will run Sage 100 Advanced ERP on the server. For more information, see TCP/IP Protocol on page 130.

If you are installing Sage 100 Advanced ERP on a Windows Server with Terminal Services enabled, see Terminal Services Considerations on page 133.

The server where you are installing Sage 100 Advanced ERP should have a minimum of 2 GB of free disk space, depending on the number of applications to be installed. Verify that you have 2 GB of disk space available for System Setup and Library Master, plus an additional 15 to 25 MB for each module to be installed and the company data.

All prerequisites must be installed before installing Sage 100 Standard ERP; any prerequisite that is not on your system will be installed by the Sage 100 ERP 2013 installation program.

For information on the specific operating system requirements, see the Supported Platform Matrix on the Support page on the Sage Customer Portal at: <https://customers.sagenorthamerica.com>

Pre-Installation Tasks

Perform these tasks before beginning the installation process.

 **WARNING**
If you are upgrading from a prior version, you must install Sage 100 ERP version 2013 to a new location and perform a parallel installation.

- If you are upgrading from a prior version, read the *Customer Upgrade Guide*, which is available on the Sage Customer Portal and in the Documentation folder within the Sage 100 ERP installation program.
- Verify that you have your Sage Download Notification e-mail, which includes the serial number, customer number, user key, and product key, which are required to install Sage 100 Advanced ERP for the correct number of users and to register the modules. This information is also available on the Sage Customer Portal under Products > Details.
- Depending on your Internet connection speed, downloading the installation files may take several hours; therefore, you may want to download the files in advance. For more information, see step 3 on page 18.
- Test and validate all of the hardware and network configurations using the following resources, which can be found on the Support page on the Sage Customer Portal at: <https://customers.sagenorthamerica.com>
 - The Supported Platform Matrix
 - The Integrated Solutions Compatibility Matrix
 - The latest service packs and program updates
- If you will be installing the Sage 100 ERP Web Engine, verify that IIS is installed and running.
- If a prior version of the Sage 100 ERP Web Engine is installed for the eBusiness Manager module, back up any customized templates in the IW folder to another location, and then uninstall the Sage Web Engine. After version 2013 of the Sage Web Engine is installed, move the templates back to the IW folder.
- Configure TCP/IP as a protocol on your server and workstations. All workstations must be able to ping the server and vice versa. For information on pinging the server, see Basic Configuration on page 130.

- Verify that the Application Server port ID is open, and create an inbound rule, if necessary.
- Third-party applications used with Sage 100 Advanced ERP may require a drive mapping or UNC path to the server where the data files are located. This drive must be mapped to a share point on the server above the MAS90 folder. Although Sage 100 Advanced ERP itself does not require a logical drive mapping, any application written to access the data files (including third-party or Sage developer partner applications) must have a valid logon to the server and may require a logical drive mapping or UNC path.
- If you are installing Sage CRM and using the Integrated Logon for SQL Server, create a Windows user account with permissions to access both the server where Sage 100 Advanced ERP will be installed and the SQL Server database. This account is used by the Integration Engine to send data between the Sage 100 Advanced ERP server and the Sage CRM server. You are asked to provide this information during the Sage 100 Advanced ERP installation. For more information, see Installing Sage CRM on page 38.

Installation Process

 **WARNING**
If you install Sage 100 ERP on a server with an unsupported operating system, Sage 100 ERP Customer Support will be unable to assist you if you encounter any problems.

Run the Sage 100 Advanced ERP installation wizard program to install a new instance of Sage 100 Advanced ERP or to upgrade your system from a prior version. The installation wizard guides you through the installation.

To install Sage 100 Advanced ERP

- 1 Log on to the server where Sage 100 ERP will be installed using an account with administrator rights. You must run the Setup program on the Windows server, not from a workstation connected to the server.
- 2 Close down other programs. Do not close antivirus, antispyware, and script-blocking software unless it is actually interfering with the installation.
- 3 Download the Sage 100 ERP 2013.exe file from the location specified in your Download Notification e-mail from Sage.
 - a When prompted to run or save the file, click Save.



NOTE

Saving the file in a location that results in a long location path may result in errors when extracting the installation program.



NOTE

When specifying where to install Sage 100 ERP, do not nest a destination folder in folders named MAS90 or SOA.



NOTE

If a message appears asking you to restart the computer, you must do so before the installation will be fully functional.

- b Save the file to a folder in the root directory of your computer, for example: C:\temp.
 - c When the Download Complete window appears, click Run. This starts the download process. Depending on your Internet connection speed, the download may take several hours to complete.
- 4 Click the Sage 100 ERP 2013.exe file to extract the installation files. The Sage 100 ERP 2013 folder, which contains the installation files, will be extracted.
 - 5 In the Sage 100 ERP 2013 folder, click Autorun.exe.
 - 6 On the Autorun screen, click Sage 100 Advanced ERP, and then click Install Sage 100 Advanced ERP to begin the installation.
 - 7 Follow the steps in the installation wizard to install a new instance or upgrade an existing installation.

The time required for installing depends on the number of modules selected. If several modules are installed, this process may take several minutes.

If you receive a message stating that no installation of Adobe Acrobat Reader was detected, click OK to continue with the installation. To install the application, click Productivity Applications, and then click Install Acrobat Reader.

After the Sage 100 ERP installation is completed, the Upgrade Checklist automatically appears if Acrobat Reader is installed. To manually access this document, click Documentation on the Sage 100 Advanced ERP screen.

Post-Installation Tasks

Perform the following tasks after installing Sage 100 Advanced ERP.

- 1 If you are upgrading, refer to the *Customer Upgrade Guide*, which is available in the Documentation folder within the Sage 100 ERP installation program.
- 2 Install any Sage 100 ERP 2013 product updates available on the Sage Customer Portal at: <https://customers.sagenorthamerica.com>
- 3 Create a share at least one folder above the MAS90 folder. This is required before running Workstation Setup. For more information, see Sage 100 ERP Security Permissions on page 122.
- 4 Set up and start the Application Server (see Using the Application Server on page 57).
- 5 Install Sage CRM if you plan to use that product (see Installing Sage CRM on page 38).
- 6 To run Microsoft Script links, you must have the Microsoft Windows Script Host processor on your system. For information on installing the Microsoft Windows Script Host processor, refer to the Microsoft Download Center Web site.
- 7 Run Workstation Setup on all workstations that will access the Sage 100 Advanced ERP installation (see Workstation Setup on this page).
 - Workstations used to process credit card transactions or set up credit card processing require a working Internet connection.
 - Add www.sageexchange.com to the list of trusted websites for any workstations that will be using the Sage Exchange Desktop to set up credit card related data.
- 8 Install optional productivity applications, such as SAP Crystal Reports Designer, on each workstation as needed. Installing SAP Crystal Reports Designer is necessary only if you plan to create or modify reports.

- 9 If you are installing Federal and State eFiling and Reporting, you must install it on each Sage 100 Advanced ERP workstation. For more information, see *Installing Federal and State eFiling and Reporting* on page 74.
- 10 If you are using third-party 64-bit applications, such as the 64-bit version of Microsoft Office, that need to access Sage 100 ERP data, install the 64-bit ODBC driver from the Productivity Applications menu.
- 11 Create companies and activate modules (see *Creating and Activating Companies* on page 80).
- 12 Create roles and user codes, and set up system preferences (see *Setting Up Roles and Users for Security* on page 86).
- 13 Set up the modules for your companies. If you are converting your existing business management system to Sage 100 Advanced ERP, assemble the data you need to set up each module. For more information, refer to your *Getting Started Guide*.

Workstation Setup



NOTE

Run the Workstation Setup program after every Sage 100 Advanced ERP software upgrade.

The Workstation Setup wizard installs the required software, common programs, and Help files to the workstations that will access the Application Server installation. The workstation installation wizard copies all of the necessary Dynamic Link Libraries, ActiveX controls, and other components to the local Windows\System folder and sets up the initialization files for the workstation.

Workstation Setup Requirements

Do not install workstation components to a server or to a shared installation. Each workstation must have its own set of workstation components on a local hard drive.

Workstations used to process credit card transactions or set up credit card processing require a working Internet connection.

Add www.sageexchange.com to the list of trusted websites for any workstations that will be using the Sage Exchange Desktop to set up credit card related data.

If you are running Sage 100 Advanced ERP through Terminal Services or Citrix, do not run the workstation installation wizard directly at the Terminal Services or Citrix server. Instead, run the workstation installation wizard only once through a remote session. Running the workstation installation wizard from a Terminal Services session will set up the correct registry entries for Crystal forms and reports access and copy the multi-user activation file from the Application Server to the Terminal or Citrix server. For more information, see Running in a Terminal Services or Citrix Environment on page 132.

Running Workstation Setup

To facilitate ease of installation, the Workstation Setup program should be run from the server where Sage 100 Advanced ERP is installed.

To run Workstation Setup



NOTE

If you have multiple installations of the same version of Sage 100 Advanced ERP, see Multiple Installations on page 23.

- 1 Close down other programs. Do not close antivirus, antispyware, and script-blocking software unless it is actually interfering with the installation.
- 2 Connect to the server using the UNC path to the share point where Sage 100 Advanced ERP is installed.
- 3 Use Windows Explorer to attach to the server share point where Sage 100 Advanced ERP is installed, and locate the MAS90\Wksetup folder.
- 4 Double-click Autorun.exe to run the program; it takes a few seconds to launch.
- 5 Follow the steps in the Workstation Setup wizard.



NOTE

If a message appears asking you to restart the computer, you must do so before the installation will be fully functional.

If you receive a message stating that no installation of Adobe Acrobat Reader was detected, click OK to continue with the installation. To install Acrobat Reader, start the Sage 100 ERP installation program, and select your product from the Autorun screen. Click Productivity Applications, and then click Install Acrobat Reader.

If you are running through Terminal Services/Citrix, you are prompted to indicate whether Sage 100 Advanced ERP will be accessed through Terminal Server. Click Yes to copy the activation key file. This allows multiple Terminal Services/Citrix sessions to access Sage 100 Advanced ERP at the same time. Click No to leave the activation set for a single user. If you typed NO ACCESS at the Server field in the Sage 100 Advanced ERP Server Path page, this message does not appear.

If you click Yes to copy the activation key file but receive a message indicating the copy was not successful, you must manually copy the file to the MAS90/Home/Lib/Keys folder.

To create a Workstation Setup DVD, copy the contents of the MAS90\WKSETUP folder to the root folder of a blank DVD. For detailed information on creating a DVD, refer to your DVD burner software.

**NOTE**

Only one current version on a server is supported.

Multiple Installations

A Sage 100 Advanced ERP workstation can attach to multiple servers. For example, if your site has three servers and Sage 100 Advanced ERP is installed on each server, you can connect to the appropriate server by clicking a single icon rather than having a separate icon for each installation.

Adding a Server to Existing Workstation

To add a server to an existing workstation, launch the Install Sage 100 Advanced ERP Workstation program from the Sage 100 Advanced ERP server installation folder and double-click Autorun.exe to run the program. Click Add on the Program Maintenance page and enter the server name, path, and port ID associated with the server you want to add. After Workstation is run, click Finish.

Selecting a Server

If the Workstation Setup wizard has been run for only one server, your system is configured automatically for that server. Running the Workstation Setup wizard again (from a different server path) allows you to select from multiple servers using the same workstation files. If multiple servers are found in your local configuration file, a dialog box appears which lists both the server name and the socket number on which the program is running. Select the server and socket number pair to which to attach and click OK. If you do not want to start Sage 100 Advanced ERP, click Cancel to terminate the program. You cannot have multiple installations for the same version of the Sage 100 Advanced ERP server component on the same server.

Editing, Adding, and Removing Servers

Use the Select Server window to edit, add, or remove entries in the window by clicking the appropriate button. Clicking Add displays a window in which you can enter a server name, alias, and socket number.

After all the information is entered, click Accept to save the entry or click Cancel to return to the main selection window without adding this server entry.

The Edit feature functions similarly to the Add feature, except that the window contains all of the current information about the server and port ID. The Edit Server window can be used to modify existing data or change the socket number, if necessary. Click Remove in the Select Server window to remove the server entry from the configuration file.

Aliasing a Server

It may be practical to assign an alias to the server and socket number pairs. For example, you can label one installation as “Accounting” and a second installation as “Payroll.” You can assign an alias to any server and socket number pair in the list of installed servers by clicking Alias in the Select Server window.

Select the server and socket number pair to alias by selecting the line and clicking Alias. Type the name of the alias to use for this server and socket number, and click Accept. If you do not want to alias this server, click Cancel.

The aliases associated with servers are local to each individual workstation. The configuration information is stored in the SOTA.INI file located in the \MAS90\Launcher folder. To use the same configuration files on multiple workstations, copy the SOTA.INI file to each workstation's \MAS90\Launcher folder.

Setting a Default Server

When multiple servers are present, you may want to set a default server and port ID to start up. Even if the server and port are set to Default, the Select Server window always appears; however, the selected server is the one chosen as the default. Click OK to start Sage 100 Advanced ERP on the default server.

To set a server and socket number as the default, select the server and socket number pair by clicking the line, and selecting the Default check box. When Sage 100 Advanced ERP is started from this workstation, the server and socket number selected as the defaults are highlighted.

Chapter 4

Installing Sage 100 Premium ERP

Read this guide completely before installing and setting up Sage 100 Premium ERP. A series of procedures must be completed for new installations. For more information, read the *Getting Started Guide*, which is available in the Documentation folder within the Sage 100 ERP installation program.

When upgrading a system, there are additional pre- and post-installation instructions for converting to the current version. For more information, read the *Customer Upgrade Guide*. To access this guide, select a product from the Autorun screen, and then click Documentation on the product screen.

Installation Requirements

**NOTE**

For information on the configured options for installing SQL Server, see Sage Configured Installation for SQL Server on page 134.

Microsoft SQL Server must be installed before installing Sage 100 Premium ERP. Sage supports the installation of Sage 100 Premium ERP and Microsoft SQL Server on the same server as well as the installation of the two products on separate servers. For information on the version of Microsoft SQL Server available through Sage, see Microsoft SQL Server Runtime Edition 2012 on page 27.

Sage 100 Premium ERP uses the TCP/IP protocol for all communications between the workstation and server. To run Sage 100 Premium ERP, TCP/IP must be properly configured on both the Windows Server and all workstations that will run Sage 100 Premium ERP on the server. For more information, see TCP/IP Protocol on page 130.

If you are installing Sage 100 Premium ERP on a Windows Server with Terminal Services enabled, see Terminal Services Considerations on page 133.

The server where you are installing Sage 100 Premium ERP should have a minimum of 2 GB of free disk space, depending on the number of applications to be installed. Verify that you have 2 GB of disk space available for System Setup and Library Master, plus an additional 15 to 25 MB for each module to be installed and the company data.

All prerequisites must be installed before installing Sage 100 Standard ERP; any prerequisite that is not on your system will be installed by the Sage 100 ERP 2013 installation program.

For information on the specific operating system requirements, see the Supported Platform Matrix on the Support page on the Sage Customer Portal at: <https://customers.sagenorthamerica.com>

Microsoft SQL Server Runtime Edition 2012

If you purchased SQL Server directly from Sage, you will install Microsoft SQL Server Runtime Edition 2012. The only difference between this version and SQL Server 2012 Standard Edition is that Microsoft SQL Server Runtime Edition 2012 can be used only with Sage products. The performance of the two versions is the same, both come with the same database administration tools, and neither have restrictions on the database size.

Installation Requirements

Microsoft .NET Framework 3.5 SP1 is required and is included with the SQL Server installation program. If you select the Sage Configured installation type, .NET Framework 3.5 will be automatically installed if the installation wizard detects that your system has an older version.

Windows Installer 4.5 or higher is required and is included with the SQL Server installation program. If you select the Sage Configured installation type, Windows Installer 4.5 will be automatically installed if the installation wizard detects that your system has an older version.

SQL Server Installation Types

There are two installation types available: Sage Configured and Advanced. The Sage Configured option allows you to bypass the Microsoft SQL Server Setup program; SQL Server will automatically be optimally configured for Sage 100 Premium ERP. For information on how parameters are defined, see Sage Configured Installation for SQL Server on page 134.

If you select the Advanced installation option, you will exit the Sage installation wizard. The Microsoft SQL Server Setup program's Autorun screen will appear, and you can use that program to configure and install SQL Server.

If the installation wizard detects an existing SQL Server installation, you will have only the Advanced installation option.



WARNING
If you install SQL Server or Sage 100 Premium ERP on a server with an unsupported operating system, Sage 100 ERP Customer Support will be unable to assist you if you encounter any problems.

Microsoft SQL Server Runtime Edition 2012 Installation Process

If you purchased SQL Server from Sage, follow the steps below to perform the installation.

To install SQL Server

- 1 Log onto the server where SQL Server will be installed.
- 2 Close down other programs. Do not close antivirus, antispyware, and script-blocking software unless it is actually interfering with the installation.
- 3 Download the Microsoft SQL Server 2012.exe file from the location specified in your Download Notification e-mail from Sage.
 - a When prompted to run or save the file, click Save.
 - b Save the file to a folder in the root directory of your computer, for example: C:\temp.
 - c When the Download Complete window appears, click Run. This starts the download process. Depending on your Internet connection speed, the download may take several hours to complete.
- 4 Click the executable file to extract the installation files. The Microsoft SQL Server 2012 folder, which contains the installation files, will be extracted.
- 5 In the Microsoft SQL Server 2012 folder, click Autorun.exe.
- 6 On the Autorun screen, click Install Microsoft SQL Server Runtime Edition 2012.

A message appears if SQL Server is already installed on your system. The Sage Configured installation type will be unavailable; you must use the Advanced SQL Server Installation option.

- 7 Follow the steps in the installation wizard to install SQL Server. If you select the Advanced SQL Server Installation, you will use the Microsoft SQL Server Setup program to configure and install SQL Server.

**NOTE**

The SQL Server 2012 Setup window appears during the installation, which may take up to an hour.

If one or more of the required components are missing from your server, a message appears. Click Yes to install the missing components, or click No to exit the installation process.

- 8 If you are prompted to restart your system after components are installed, restart the computer, and then resume the installation.

Pre-Installation Tasks

Perform these tasks before installing Sage 100 Premium ERP.

**WARNING**

If you are upgrading from a prior version, you must install Sage 100 ERP version 2013 to a new location and perform a parallel installation.

- If you are upgrading from a prior version, read the *Customer Upgrade Guide*, which is available on the Sage Customer Portal and in the Documentation folder within the Sage 100 ERP installation program.
- Verify that you have your Sage Download Notification e-mail, which includes the serial number, customer number, user key, and product key, which are required to install Sage 100 Premium ERP for the correct number of users and to register the modules. This information is also available on the Sage Customer Portal under Products > Details.
- Depending on your Internet connection speed, downloading the installation files may take several hours; therefore, you may want to download the files in advance. For more information, see step 3 on page 31.

- Test and validate all of the hardware and network configurations using the following resources, which can be found on the Support page on the Sage Customer Portal at: <https://customers.northamerica.com>
 - The Supported Platform Matrix
 - The Integrated Solutions Compatibility Matrix
 - The latest service packs and program updates
- Configure TCP/IP as a protocol on your server and workstations. All workstations must be able to ping the server and vice versa. For information on pinging the server, see Basic Configuration on page 130.
- Verify that the Application Server port ID is open, and create an inbound rule, if necessary.
- Third-party applications used with Sage 100 Premium ERP may require a drive mapping or UNC path to the server where the data files are located. This drive must be mapped to a share point on the server above the MAS90 folder. Although Sage 100 Premium ERP itself does not require a logical drive mapping, any application written to access the data files (including third-party or Sage developer partner applications) must have a valid logon to the server and may require a logical drive mapping or UNC path.
- If you are installing Sage CRM and using the Integrated Logon for SQL Server, create a Windows user account with permissions to access both the server where Sage 100 Premium ERP will be installed and the SQL Server database. This account is used by the Integration Engine to send data between the Sage 100 Premium ERP server and the Sage CRM server. You are asked to provide this information during the Sage 100 Premium ERP installation. For more information, see Installing Sage CRM on page 38.

Sage 100 Premium ERP Installation Process



WARNING
If you install Sage 100 ERP on a server with an unsupported operating system, Sage 100 ERP Customer Support will be unable to assist you if you encounter any problems.

Run the Sage 100 Premium ERP installation wizard program to install a new instance of Sage 100 Premium ERP or to upgrade your system from a prior version. The installation wizard guides you through the installation.

To install Sage 100 Premium ERP

- 1 Log on to the server where Sage 100 ERP will be installed using an account with administrator rights. You must run the Setup program on the Windows server, not from a workstation connected to the server.
- 2 Close down other programs. Do not close antivirus, antispyware, and script-blocking software unless it is actually interfering with the installation.
- 3 Download the Sage 100 ERP 2013.exe file from the location specified in your Download Notification e-mail from Sage.
 - a When prompted to run or save the file, click Save.
 - b Save the file to a folder in the root directory of your computer, for example: C:\temp.
 - c When the Download Complete window appears, click Run. This starts the download process. Depending on your Internet connection speed, the download may take several hours to complete.
- 4 Click the Sage 100 ERP 2013.exe file to extract the installation files. The Sage 100 ERP 2013 folder, which contains the installation files, will be extracted.
- 5 In the Sage 100 ERP 2013 folder, click Autorun.exe.
- 6 On the Autorun screen, click Sage100 Premium ERP, and then click Install Sage 100 Premium ERP to begin the installation.
- 7 Follow the steps in the installation wizard to install a new instance or upgrade an existing installation.



NOTE
Saving the file in a location that results in a long location path may result in errors when extracting the installation program.



NOTE
When specifying where to install Sage 100 ERP, do not nest a destination folder in folders named MAS90 or SOA.

The time required for installing depends on the number of modules selected. If several modules are installed, this process may take several minutes.

**NOTE**

If a message appears asking you to restart the computer, you must do so before the installation will be fully functional.

If you receive a message stating that no installation of Adobe Acrobat Reader was detected, click OK to continue with the installation. To install the application, click Productivity Applications, and then click Install Acrobat Reader.

After the Sage 100 ERP installation is completed, the Upgrade Checklist automatically appears if Acrobat Reader is installed. To manually access this document, click Documentation on the Sage 100 Premium ERP screen.

Post-Installation Tasks

Perform the following tasks after installing Sage 100 Premium ERP.

- 1 If you are upgrading, refer to the *Customer Upgrade Guide*, which is available in the Documentation folder within the Sage 100 ERP installation program.
- 2 Install any Sage 100 ERP 2013 product updates available on the Sage Customer Portal at: <https://customers.sagenorthamerica.com>
- 3 Create a share at least one folder above the MAS90 folder. This is required before running Workstation Setup. For more information, see Sage 100 ERP Security Permissions on page 122.
- 4 Set up and start the Application Server (see Using the Application Server on page 57).
- 5 Install Sage CRM if you plan to use that product (see Installing Sage CRM on page 38).
- 6 To run Microsoft Script links, you must have the Microsoft Windows Script Host processor on your system. For information on installing the Microsoft Windows Script Host processor, refer to the Microsoft Download Center Web site.

- 7 Run Workstation Setup on all workstations that will access the Sage 100 Premium ERP installation (see Workstation Setup on page 34).
 - Workstations used to process credit card transactions or set up credit card processing require a working Internet connection.
 - Add www.sageexchange.com to the list of trusted websites for any workstations that will be using the Sage Exchange Desktop to set up credit card related data.
- 8 Install optional productivity applications, such as SAP Crystal Reports Designer, on each workstation as needed. Installing SAP Crystal Reports Designer is necessary only if you plan to create or modify reports.
- 9 If you are installing Federal and State eFiling and Reporting, you must install it on each Sage 100 Premium ERP workstation. For more information, see Installing Federal and State eFiling and Reporting on page 74.
- 10 If you are using third-party 64-bit applications, such as the 64-bit version of Microsoft Office, that need to access Sage 100 ERP data, install the 64-bit ODBC driver from the Productivity Applications menu.
- 11 Create companies and activate modules (see Creating and Activating Companies on page 80).
- 12 Create roles and user codes, and set up system preferences (see Setting Up Roles and Users for Security on page 86).
- 13 Set up the modules for your companies. If you are converting your existing business management system to Sage 100 Premium ERP, assemble the data you need to set up each module. For more information, refer to your *Getting Started Guide*.

Workstation Setup

**NOTE**

Run the Workstation Setup program after every Sage 100 Premium ERP software upgrade.

The Workstation Setup wizard installs the required software, common programs, and Help files to the workstations that will access the Application Server installation. The workstation installation wizard copies all of the necessary Dynamic Link Libraries, ActiveX controls, and other components to the local Windows\System folder and sets up the initialization files for the workstation.

Workstation Setup Requirements

Do not install workstation components to a server or to a shared installation. Each workstation must have its own set of workstation components on a local hard drive.

Workstations used to process credit card transactions or set up credit card processing require a working Internet connection.

Add www.sageexchange.com to the list of trusted websites for any workstations that will be using the Sage Exchange Desktop to set up credit card related data.

If you are running Sage 100 Premium ERP through Terminal Services or Citrix, do not run the workstation installation wizard directly at the Terminal Services or Citrix server. Instead, run the workstation installation wizard only once through a remote session. Running the workstation installation wizard from a Terminal Services session will set up the correct registry entries for Crystal forms and reports access and copy the multi-user activation file from the Application Server to the Terminal or Citrix server. For more information, see *Running in a Terminal Services or Citrix Environment* on page 132.

Running Workstation Setup

To facilitate ease of installation, the Workstation Setup program should be run from the server where Sage 100 Premium ERP is installed.

To run Workstation Setup



NOTE

If you have multiple installations of the same version of Sage 100 Premium ERP, see Multiple Installations on page 36.

- 1 Close down other programs. Do not close antivirus, antispyware, and script-blocking software unless it is actually interfering with the installation.
- 2 Connect to the server using the UNC path to the share point where Sage 100 Premium ERP is installed.
- 3 Use Windows Explorer to attach to the server share point where Sage 100 Premium ERP is installed, and locate the MAS90\Wksetup folder.
- 4 Double-click Autorun.exe to run the program; it takes a few seconds to launch.
- 5 Follow the steps in the Workstation Setup wizard.



NOTE

If a message appears asking you to restart the computer, you must do so before the installation will be fully functional.

If you receive a message stating that no installation of Adobe Acrobat Reader was detected, click OK to continue with the installation. To install Acrobat Reader, start the Sage 100 ERP installation program, and select your product from the Autorun screen. Click Productivity Applications, and then click Install Acrobat Reader.

If you are running through Terminal Services/Citrix, you are prompted to indicate whether Sage 100 Premium ERP will be accessed through Terminal Server. Click Yes to copy the activation key file. This allows multiple Terminal Services/Citrix sessions to access Sage 100 Premium ERP at the same time. Click No to leave the activation set for a single user. If you typed NO ACCESS at the Server field in the Sage 100 Premium ERP page, this message does not appear.

If you click Yes to copy the activation key file but receive a message indicating the copy was not successful, you must manually copy the file to the MAS90/Home/Lib/Keys folder.

To create a Workstation Setup DVD, copy the contents of the MAS90\WKSETUP folder to the root folder of a blank DVD. For detailed information on creating a DVD, refer to your DVD burner software.

**NOTE**

Only one current version on a server is supported.

Multiple Installations

A Sage 100 Premium ERP workstation can attach to multiple servers. For example, if your site has three servers and Sage 100 Premium ERP is installed on each server, you can connect to the appropriate server by clicking a single icon rather than having a separate icon for each installation.

Adding a Server to Existing Workstation

To add a server to an existing workstation, launch the Install Sage 100 Premium ERP Workstation program from the Sage 100 Premium ERP server installation folder and double-click Autorun.exe to run the program. Click Add on the Program Maintenance page and enter the server name, path, and port ID associated with the server you want to add. After Workstation is run, click Finish.

Selecting a Server

If the Workstation Setup wizard has been run for only one server, your system is configured automatically for that server. Running the Workstation Setup wizard again (from a different server path) allows you to select from multiple servers using the same workstation files. If multiple servers are found in your local configuration file, a dialog box appears which lists both the server name and the socket number on which the program is running. Select the server and socket number pair to which to attach and click OK. If you do not want to start Sage 100 Premium ERP, click Cancel to terminate the program. You cannot have multiple installations for the same version of the Sage 100 Premium ERP server component on the same server.

Editing, Adding, and Removing Servers

Use the Select Server window to edit, add, or remove entries in the window by clicking the appropriate button. Clicking Add displays a window in which you can enter a server name, alias, and socket number.

After all the information is entered, click **Accept** to save the entry or click **Cancel** to return to the main selection window without adding this server entry.

The **Edit** feature functions similarly to the **Add** feature, except that the window contains all of the current information about the server and port ID. The **Edit Server** window can be used to modify existing data or change the socket number, if necessary. Click **Remove** in the **Select Server** window to remove the server entry from the configuration file.

Aliasing a Server

It may be practical to assign an alias to the server and socket number pairs. For example, you can label one installation as “Accounting” and a second installation as “Payroll.” You can assign an alias to any server and socket number pair in the list of installed servers by clicking **Alias** in the **Select Server** window.

Select the server and socket number pair to alias by selecting the line and clicking **Alias**. Type the name of the alias to use for this server and socket number, and click **Accept**. If you do not want to alias this server, click **Cancel**.

The aliases associated with servers are local to each individual workstation. The configuration information is stored in the **SOTA.INI** file located in the **\MAS90\Launcher** folder. To use the same configuration files on multiple workstations, copy the **SOTA.INI** file to each workstation's **\MAS90\Launcher** folder.

Setting a Default Server

When multiple servers are present, you may want to set a default server and port ID to start up. Even if the server and port are set to **Default**, the **Select Server** window always appears; however, the selected server is the one chosen as the default. Click **OK** to start Sage 100 Premium ERP on the default server.

To set a server and socket number as the default, select the server and socket number pair by clicking the line, and selecting the **Default** check box. When Sage 100 Premium ERP is started from this workstation, the server and socket number selected as the defaults are highlighted.

Installing Sage CRM

The Sage CRM server(s) host the Sage CRM program files, Internet Information Services (IIS) Web Server, and SQL Server database. These components should be installed on a separate server from the one with Sage 100 ERP installed. Depending on the number of users accessing the Sage CRM server, it may be necessary to split the Sage CRM SQL Server database and the IIS Web server across two or more servers.

Hardware Requirements

These guidelines are for call center-type users on a non-customized system. Product customizations can significantly impact the performance of Sage CRM and should be carefully evaluated when specifying hardware.

- For the Web server, disk mirroring (RAID 1) is recommended. For the database server, a RAID 10 disk array system is strongly recommended. RAID 10 allows you to swap out a failed drive with minimal disruption to your production environment and improves performance. Larger sites should consider the use of a fiber channel SAN.
- Each site must have adequate backup and recovery capabilities.
- An Uninterruptible Power Supply is recommended.
- A "hot standby" system with a backup database is recommended. This standby system should have a very similar configuration to the primary production system, and can also be used for development and testing.
- The amount of disk space required varies based on the number of customer records, archiving plans, and backup policies. The disk space can also vary based on the amount of data stored for each customer. Estimate disk space needs before installation to allow for significant growth in the volume of data.

- Keep in mind the type of user who will be working with the system. For example, 200 call center users use the system more intensively than 200 sales and marketing users.

Using Multiple Servers

Follow these guidelines for determining the number of Sage CRM servers to use. You should use test servers to replicate your intended server configuration before using live data.

- If your installation will be accessed by fewer than 50 users and the database size is less than 2GB, the database and Web server can be located on the same machine. The machine should have two dual core processors.
- If your installation will be accessed by more than 50 users, split the database server and Web server across two machines. The machines should each have two dual core processors.
- If your installation will be accessed by more than 200 users, use high-specification processors in each machine. If your installation will be accessed by several hundred users, multi-server Sage CRM should be considered.

Software Requirements



NOTE

Microsoft SQL Server Express is not supported.

Only Microsoft SQL Server databases are supported. SQL Server must be installed on the database server before Sage CRM is installed. Microsoft Internet Information Services (IIS) must also be installed on the Web server. This guide assumes that you understand the SQL Server and IIS Web server environments.

Sage CRM connects to the database using Microsoft Data Access Components (MDAC). If MDAC or its latest version is not already installed on your system, it is installed as part of setup.

A Java Runtime Environment is required; if it is not installed on the server, you are prompted to install it. You may have to restart your system for the Java Runtime Environment changes to take effect. This software is required for the FOP software to function.

Microsoft .NET Framework is required; if it is not installed on the server, you are prompted to install it. This component is required for Sage CRM.

Pre-Installation Tasks

Perform these tasks before beginning the installation process.

- Ideally, Sage 100 ERP should be installed before installing Sage CRM (see *Installing Sage 100 Standard ERP* on page 6, *Installing Sage 100 Advanced ERP* on page 16, or *Installing Sage 100 Premium ERP* on page 26).
- If you are upgrading from a prior version of Sage CRM, third-party customizations may be overwritten. Contact your Sage business partner for assistance. For more information, see *Upgrading Sage CRM* on page 45.
- Determine the name of the database server you will install to and the port number that SQL Server is using for TCP/IP connectivity.
- When installing an additional instance of Microsoft SQL Server, you must enter a specific port number and make note of that port number so that you can enter it in CRM Company Options.
- The Integration Engine will need to be started for setting up the Customer Relationship Management module. For more information, see *Post-Installation Tasks* on page 43.
- Depending on your Internet connection speed, downloading the installation files may take several hours; therefore, you may want to download the files in advance. For more information, see step 3 on page 42.

Tasks to perform if installing on a Windows 2008 Server Network

Perform the following pre-installation tasks if you are installing Sage CRM on a Windows 2008 Server Network:

- Install the following server roles, if not already installed.
 - ASP.NET
 - ASP (set Enable Parent Paths to True)
 - ISAPI Extensions
 - Windows Authentication (if Auto Logon is used)
 - IIS 6 Management Console
 - IIS 6 Management Compatibility
- In IIS, ensure that the Anonymous Authentication Credentials are either using Application Pool Identity or are hard-coded with a local administrator account.
- If Windows Firewall is used, set the Incoming connections option to Allowed.
- Verify that the Application Server port ID is open, and create an inbound rule, if necessary.
- Verify that the SQL Server port ID is open, and create an inbound rule, if necessary.
- Verify that the Integration Engine port ID is open, and create an inbound rule, if necessary.
- If 64-bit is used, run IIS in 32-bit compatibility mode. For more information, refer to your Sage CRM *System Administrator Guide*.
- Perform the Sage CRM product installation directly at the server.

Installation Process



NOTE
Sage 100 ERP supports the United States dollar currency only.

Perform this installation at the IIS Web server. This section refers only to a new installation. For information on upgrading, see Upgrading Sage CRM on page 45.

To install Sage CRM

- 1 Log on to the IIS Web server where you are installing the Sage CRM software.
- 2 Close down other programs. Do not close antivirus, antispyware, and script-blocking software unless it is actually interfering with the installation.
- 3 Download the Sage 100 ERP 2013 CRM.exe file from the location specified in your Download Notification e-mail from Sage.
 - a When prompted to run or save the file, click Save.
 - b Save the file to a folder in the root directory of your computer, for example: C:\temp.
 - c When the Download Complete window appears, click Run. This starts the download process. Depending on your Internet connection speed, the download may take several hours to complete.
- 4 Click the Sage 100 ERP 2013 CRM.exe file to extract the installation files. The Sage 100 ERP 2013 CRM folder, which contains the installation files, will be extracted.
- 5 In the Sage 100 ERP 2013 CRM folder, click Autorun.exe.
- 6 On the Autorun screen, click New Sage CRM Installation.
- 7 If Microsoft .NET Framework 3.5 is not installed on the server, you are prompted to install it. Click OK to launch and complete the Microsoft .NET Framework installation wizard.
- 8 Follow the steps in the installation wizard to install Sage CRM.



NOTE
Saving the file in a location that results in a long location path may result in errors when extracting the installation program.

 **WARNING**
Stopping the IIS server disconnects all users who are currently using any Web site connected to the IIS server.

Note the name of the Sage CRM SQL Server database and logon information. When setting up the Customer Relationship Management module in Sage 100 ERP, you will be required to provide this information.

If Internet Information Services (IIS) is running on the server, you are prompted to stop IIS before the installation process begins. Click OK to stop the IIS server and perform the installation. After the installation has completed, IIS will be restarted automatically.

Post-Installation Tasks

Perform the following tasks after installing Sage CRM and Sage 100 ERP.

- 1 The Integration Engine must be started before setting up Sage CRM. Perform the following steps to start the Integration Engine:
 - a Select Windows Start menu > Control Panel > Administrative Tools > Services.
 - b Right-click Sage 100 ERP Integration Engine and click Properties.
 - c In the Startup Type drop-down field, select Automatic, and then click Apply. Close the Properties window.
 - d Right-click Sage 100 ERP Integration Engine and click Start.
- 2 Set up and create users, territories, and security profiles in Sage CRM. One Sage CRM user must be created for each Sage 100 ERP user who will be creating quotes and orders or maintaining customer information. For more information, refer to the Sage CRM *System Administrator Guide*, which is available in the CRM\Documentation folder within the Sage 100 ERP — Sage CRM installation program.
- 3 Set up the Customer Relationship Management module in your Sage 100 ERP installation. Sage 100 ERP and Sage CRM will not be integrated until after you set up the module in CRM Server Options and CRM Company Options. For more information, see Set Up Customer Relationship Management for a new Company in the Sage 100 ERP Help system.

Third-Party Applications for Sage CRM

The following third-party applications are required to perform certain Sage CRM tasks on the workstation.

- Document Plug-In is required to use the mail merge functionality. The first time a user encounters one of the features requiring the plug-in (for example, the My CRM menu > Calendar page displaying the Document Drop icon), they are prompted to download the plug-in. Instructions are provided on-screen. The user must be an administrator or power user of the client machine to install the Mail Merge Plug-In. The client browser must also be configured to accept plug-ins.
- Outlook Plug-In is required for Sage CRM Outlook Integration. Users can download the Outlook Plug-In from within Sage CRM in the My CRM menu > Preferences tab. The user must be an administrator or power user of the client machine to install the Outlook Plug-In.

If installing Sage CRM Outlook Integration in a Terminal Services environment, administrator rights are required on the Terminal Services computer. All instances of Internet Explorer and Outlook must be closed to install the plug-in. At the time of the installation, exclusive access to the server is required for each user. After the plug-in is installed, administrator rights are no longer required.

Upgrading Sage CRM

If your existing installation has third-party customizations, they must be removed before beginning the upgrade. Contact your Sage business partner for assistance.



WARNING
You must upgrade Sage 100 ERP before you can log into Sage CRM.

Upgrading from Sage 100 ERP 4.50

If you are upgrading from Sage 100 ERP version 4.50, you must upgrade Sage CRM to version 7.1 SP2-hotfix 3.

To upgrade from a version of Sage CRM later than 7.1 SP2

If you have installed a Sage CRM patch released after version 7.1 SP2, you must install the latest supported patch from the Sage 100 ERP Customer Portal at: <https://customers.sagenorthamerica.com>

You must complete two wizards: one to upgrade Sage CRM and one to install the components necessary for integration with Sage 100 ERP.



WARNING
If you have installed a Sage CRM patch released after version 7.1 SP2, you must install the latest supported patch release from the Sage 100 ERP Customer Portal.

To upgrade from Sage CRM version 7.1 SP1 through 7.1 SP2

- 1 Log on to the IIS Web server where you are upgrading the Sage CRM software.
- 2 Close down other programs. Do not close antivirus, antispyware, and script-blocking software unless it is actually interfering with the installation.
- 3 Download the Sage 100 ERP 2013 CRM.exe file from the location specified in your Download Notification e-mail from Sage.
 - a When prompted to run or save the file, click Save.
 - b Save the file to a folder in the root directory of your computer, for example: C:\temp.
 - c When the Download Complete window appears, click Run. This starts the download process. Depending on your Internet connection speed, the download may take several hours to complete.



NOTE
Saving the file in a location that results in a long location path may result in errors when extracting the installation program.

- 4 Click the Sage 100 ERP 2013 CRM.exe file to extract the installation files. The Sage 100 ERP 2013 CRM folder, which contains the installation files, will be extracted.
- 5 In the Sage 100 ERP 2013 CRM folder, click Autorun.exe.
- 6 On the Autorun screen, click Upgrade from Sage CRM 7.1 SP1 through 7.1 SP2. The installation program may take a few seconds to launch.
- 7 Proceed through the steps in the wizard to install both the Sage CRM update and the components necessary for integration with Sage 100 ERP.
- 8 To complete the process, you must convert your Sage 100 ERP data and then configure settings in Sage 100 ERP CRM Server Options. For instructions, see the Upgrade Checklist in the Sage 100 ERP *Customer Upgrade Guide*.

Upgrading from Extended Enterprise Suite 1.3 or 1.4

If you are upgrading from Sage Extended Enterprise Suite version 1.3 or 1.4, you must first install Sage CRM 7.0 D2 before upgrading to Sage CRM 7.1 SP2-hotfix 3 for Sage 100 ERP version 2013.



WARNING
You must upgrade Sage 100 ERP before you can log into Sage CRM.

For information on upgrading to Sage CRM 7.0 D2, refer to the Extended Enterprise Suite link on the Support page on the Sage Customer Portal (<https://customers.sagenorthamerica.com>).

To upgrade from Sage CRM version 7.0 D2

- 1 Log on to the IIS Web server where you are upgrading the Sage CRM software.
- 2 Close down other programs. Do not close antivirus, antispysware, and script-blocking software unless it is actually interfering with the installation.
- 3 Download the Sage 100 ERP 2013 CRM.exe file from the location specified in your Download Notification e-mail from Sage.
 - a When prompted to run or save the file, click Save.

**NOTE**

Saving the file in a location that results in a long location path may result in errors when extracting the installation program.

- b Save the file to a folder in the root directory of your computer, for example: C:\temp.
- c When the Download Complete window appears, click Run. This starts the download process. Depending on your Internet connection speed, the download may take several hours to complete.
- 4 Click the Sage 100 ERP 2013 CRM.exe file to extract the installation files. The Sage 100 ERP 2013 CRM folder, which contains the installation files, will be extracted.
- 5 In the Sage 100 ERP 2013 CRM folder, click Autorun.exe.
- 6 On the Autorun screen, click Upgrade from Sage CRM version 7.0. The installation wizard may take a few seconds to launch.
- 7 Proceed through steps in the wizard to install both the Sage CRM update and the components necessary for integration with Sage 100 ERP.

A message may appear recommending that any triggers in the Sage CRM database be disabled before the upgrade. The following triggers have been enabled by Sage to facilitate integration between Sage CRM and Sage 100 ERP; it is not necessary to disable these triggers.

- Users - trguUsersSyncMAS90
 - Company - trguCompanySyncMAS90
 - Person - trguPersonSyncMAS90
 - Address - trguAddressSyncMAS90
 - Address_Link - trguAddressSyncMAS90
 - Email - trguEmailSyncMAS90
 - Phone - trguPhoneSyncMAS90
 - Opportunity - trguOpportunitySyncMAS90
 - Custom_Captions - trguCaptionsSyncMAS90
- 8 To complete the process, you must convert your Sage 100 ERP data and then configure settings in Sage 100 ERP CRM Server Options. For instructions, see the Upgrade Checklist in the Sage 100 ERP *Customer Upgrade Guide*.

Upgrading from Extended Enterprise Suite 1.2 or prior

Sage does not support upgrading from versions of Extended Enterprise Suite prior to version 1.3. If you are on version 1.2 or prior, you must upgrade to version 1.4 and then update that installation with Sage CRM 7.0 D2 before upgrading to Sage CRM 7.1 SP2-hotfix 3. For more information, refer to the Extended Enterprise Suite link on the Support page on the Sage Customer Portal at: <https://customers.sagenorthamerica.com>

Installing Quick Order Entry

To use Quick Order Entry for entering orders and quotes within Sage CRM, you must install the Quick Order Entry Component. Quick Order Entry is available for use only with Sage 100 Advanced and Premium ERP.

To install Quick Order Entry

- 1 In the Sage 100 ERP 2013 CRM folder containing the installation files used to install Sage CRM, click Autorun.exe.
- 2 On the Autorun screen, click Install Quick Order Entry Component, and follow the steps in the wizard to complete the installation.
- 3 If you have Sage CRM and Sage 100 ERP installed on two different servers, or if they are on the same server and you are not using the default port number (10000), edit the web.xml file:
 - a On the server, browse to the following location within the Sage CRM installation folder:
`..\tomcat\webapps\richwebclient_swt\WEB-INF`
 - b Right-click the web.xml file and select Edit to edit the file in Notepad. You must run Notepad as the administrator. If you are not logged in as the administrator, open Notepad by right-clicking it on the Windows programs menu and selecting Run as administrator.

- c Review the settings in the table below and update them as needed.

Setting	Note
pvx host name	The name of the server where Sage 100 ERP is installed. The default value is localhost, which is applicable only if Sage 100 ERP is installed on the same server as Sage CRM.
pvx host socket	The port number used by the Sage 100 ERP server to listen for client connections. The default host socket value is 10000.

- d Stop and then restart the Tomcat service on the server where Sage CRM is installed.

Chapter 6

Uninstalling and Reinstalling

Uninstalling Sage 100 ERP requires uninstalling each component separately. The server and workstation uninstall routines will remove all program files and registry entries made by the Sage 100 ERP installation routines. To remove Sage 100 ERP data files, manually delete the MAS90 folder. All Sage 100 ERP client workstation files are removed automatically by the workstation uninstall program.

Overview of Uninstalling Process

The installation process below describes all the procedures that must be performed to uninstall Sage 100 ERP.

- 1 If you are using Sage Fixed Assets, uninstall Sage Fixed Assets from the server and each workstation.
- 2 Uninstall Sage 100 ERP from the Application Server and each workstation (see Uninstalling Sage 100 ERP on page 51).
- 3 Uninstall the Sage CRM software, if it is installed (see Uninstalling Sage CRM on page 53).
- 4 If you are using Web Services, uninstall it.
- 5 If you are using the Web Engine, uninstall it.
- 6 If you have no other Sage products installed, uninstall Sage Advisor. Do not uninstall Sage Advisor if you have other Sage products installed that use Sage Advisor to receive updates.

Uninstalling Sage 100 ERP

The uninstall program performs a complete deletion of all Sage 100 ERP related files other than the data files; they must be manually removed by deleting the MAS90 folder.

If your system is integrated with Sage CRM, and you plan to continue using Sage CRM after uninstalling Sage 100 ERP, delete the linked Sage 100 ERP companies before uninstalling. This will remove references to those companies from the Sage CRM database. For more information, see *Delete a Company* in the Help System.



NOTE

If the Integration Engine is running, stop the engine before uninstalling Sage 100 ERP.

To uninstall the server component

- 1 Ensure that all users are logged out of the system.
- 2 In the Windows Control Panel, double-click the Programs and Features icon.
- 3 Select the Sage 100 ERP server component from the list. Click Uninstall to start the uninstall process. If you have more than one installation of Sage 100 ERP on your server, each installation will be identified by its version or installation path.
- 4 The uninstall splash screen appears briefly and is replaced by the Confirm Uninstall dialog box. Click OK.
- 5 The Uninstall Options page appears. Select the type of uninstall to perform. If you choose to remove a registry entry, you will be removing the registry entry from all installations of Sage 100 ERP. Click Next.



NOTE

When uninstalling Sage 100 Premium ERP from the server, the SQL database is not removed. Use the Microsoft database tools to remove the SQL database.

The uninstall program will begin removing the components of the server application according to what is contained in the Uninstallation Log. This includes the following components:

- All system files installed by Sage 100 ERP. This reduces the usage count of the shared system files, except for core components.
- All files copied during installation
- The program folder and program items created during installation
- Folders created during installation, specifically the MAS90 folder



NOTE

To remove Sage 100 ERP data files after uninstalling, manually delete the data folder from the MAS90 folder.

If you selected the check box to remove all registry entries, all data folders will remain in the MAS90 folder. If you select the Remove Company Data check box, the entire MAS90 folder structure will be deleted.

If there are any files that the uninstall program was unable to delete, a message appears stating that you can click the Details button to view a listing of the files and/or registry entries that could not be removed; otherwise, a message stating that the uninstallation process was successful appears.

Uninstalling the Workstation Component

The uninstall process for the Sage 100 ERP workstation component is similar to the server component uninstall process.

To uninstall the workstation component

- 1 In the Windows Control Panel, double-click the Programs and Features icon.
- 2 Select the Sage 100 ERP workstation component from the list. Click Uninstall to start the uninstall process.
- 3 You are prompted to confirm your selection. Click Yes to confirm that you want to remove the indicated software application. Click No to cancel this operation.

- 4 Some registry entries may be needed by other installations of the Sage 100 ERP workstation; therefore, the uninstall program will prompt you before removing those entries. If the message dialog box appears, click Yes to remove the registry entries that are shared with other installations of Sage 100 ERP on this workstation. Click No to keep those registry entries.

If there are any files or registry entries that the uninstall program was unable to delete, a message appears stating that you can click Details to view a listing of those files and/or registry entries; otherwise, a message stating that the uninstallation process was successful appears.

Uninstalling Sage CRM

Before uninstalling, verify that all users are logged out of Sage CRM, and shut down Internet Information Services (IIS). The Sage CRM uninstallation program removes the Sage CRM program files.

To uninstall Sage CRM

- 1 In the Windows Control Panel, double-click the Programs and Features icon.
- 2 Select Sage CRM 200, and then click Uninstall.
- 3 Follow the steps in the wizard to uninstall Sage CRM.
- 4 When the uninstallation is complete, select the View Uninstall Log File check box to view logging information. Click Finish.
- 5 The log file is displayed. If you need to manually delete any files, details are specified in the log. Review the log file to make sure there are no errors. Resolve any errors listed in the log file before reinstalling Sage CRM. Unresolved errors may prevent future installations of Sage CRM from functioning correctly.

Reinstalling Sage 100 ERP

If you previously installed the 2013 version of the software, you can install over the existing 2013 installation or install a new copy of the software. Installing over an existing 2013 version of the software streamlines the installation process.

Before reinstalling Sage 100 ERP, if the Sage Web Engine is installed for the eBusiness Manager module, back up any customized templates in the IW folder to another location, and then uninstall the Sage Web Engine. After version 2013 of the Sage Web Engine is installed, move the templates back to the IW folder.

To reinstall Sage 100 ERP

- 1 In the Sage 100 ERP installation program Autorun screen, select a product.
- 2 On the product screen, select the option to install that product.
- 3 Select whether to add, reinstall, or uninstall all modules.
 - Select Add to install modules that have not been purchased and access most of them for 45 days before you are required to purchase and register them. The 45-day trial period begins the first time the module is accessed. The eBusiness Manager, Custom Office, Electronic Reporting, and Visual Integrator modules must be registered before they can be accessed.
 - Select Reinstall to reinstall all previously installed modules. The product key information from the selected installation is used unless the information is invalid or has expired. You will not be able to enter new product key information using this option. Proceed to step 4.
 - Select Uninstall to completely uninstall Sage 100 ERP. To uninstall modules individually, use the System Configuration task on the Library Master Setup menu. For further information, see Uninstalling Modules on page 114.

- 4 Select Reinstall and click Next. If the Integration Engine is running, a message appears stating that you must stop the Integration Engine before continuing. Stop the Integration Engine using the following steps:
 - a Select Windows Start menu > Control Panel > Administrative Tools > Services.
 - b In the Services window, select the Integration Engine. Click the Stop Service button.
- 5 In the message dialog box, click OK.
- 6 Proceed through the remaining steps in the installation wizard to complete the reinstallation.
- 7 When the reinstallation is complete, restart the Integration Engine using the following steps:
 - a Select Windows Start menu > Control Panel > Administrative Tools > Services.
 - b In the Services window, select the Sage 100 ERP Integration Engine. Click the Start Service button.

Reinstalling Sage CRM

If you previously installed the Sage CRM software, after the License Agreement page, the Sage CRM 200 Setup page appears that provides you setup options to install, upgrade, change, or reinstall the Sage CRM software.

WARNING

Selecting the Complete Reinstall option will remove all data from the database.

To reinstall Sage CRM

- 1 Select the Complete Reinstall installation option to reinstall over a Sage CRM installation, and then proceed to the next step.
- 2 If you have more than one Sage CRM installation, select the installation to reinstall. Click Next.
- 3 Follow the steps in the installation wizard to complete the reinstallation. For more information, see *Installing Sage CRM* on page 38.

Changing an Existing Sage CRM Installation

The Sage CRM installation wizard allows you to change specific components in Sage CRM without performing a full reinstallation. Components you can reinstall are the database, registry, program files, IIS aliases, and license key. Changing the license key allows you to add features or increase the number of licensed users.

To change an existing installation of Sage CRM

- 1 Select the Change existing install of CRM option.
- 2 If you have more than one Sage CRM installation, select the installation to reinstall. Click Next.
- 3 Follow the steps in the installation wizard to complete the reinstallation. For more information, see *Installing Sage CRM* on page 38.

If you selected options other than the license key, you are prompted to back up components that will be affected. Perform the backup before you proceed.

Reinstalling the Workstation

If you previously installed the 2013 version of the software, you can install over the existing 2013 installation or install a new copy of the software. Installing over an existing 2013 version of the software streamlines the installation process.

To reinstall the workstation

- 1 Use Windows Explorer to attach to the server share point where the Application Server is installed and browse to the MAS90\Wksetup folder.
- 2 In the Wksetup folder, double-click WkSetup.exe to run the workstation installation wizard. It takes the workstation installation wizard a few seconds to launch.
- 3 Follow the steps in the installation wizard to reinstall the workstation.

Using the Application Server



This chapter applies to:
Sage 100 Advanced ERP
Sage 100 Premium ERP

Application Server Overview

Sage 100 Advanced and Premium ERP are powered by the Application Server, a powerful program that allows multiple users to remotely access the server using TCP/IP. Users can be connected on an internal LAN or externally through an intranet or WAN. The Application Server also allows for encryption using SSL to protect your data if operating in an environment that is not secure, such as over the Internet.

Configuring the Application Server

Before you can start Sage 100 Advanced or Premium ERP, you must first configure the Application Server. The Application Server can be configured to run as a service; it must be configured using the following steps to access the Sage 100 ERP server.

To configure the Application Server

- 1 On the server where Sage 100 ERP is installed, from the Windows Start menu, run the Application Server Configuration program. This program should be a shortcut in the Sage program group.
- 2 In the Application Server Configuration window, click the Server tab.

The server selected in the Server field is the logical name to identify the Application Server. This does not refer to the physical machine name of the server.

Verify the KeepAlives check box is cleared.

- 3 For security purposes, the first setting you should change is the socket number on which the Application Server listens for requests. By default, this is set to 10000, but can be any valid socket (port) between 9000 and 10000. Make sure the socket you choose is not being used by another service or application on this server.
- 4 Click Start to start the Application Server. In the upper-right corner, the Status field changes from Stopped to Running. Click Exit to exit the Application Server Configuration program. Users can now access Sage 100 ERP after performing workstation setup.

The Application Server continues to run and will service incoming requests from Sage 100 ERP clients, even though you have exited the Application Server Configuration program.

In this current configuration, a user must remain logged onto the server where the Application Server is running. The user logged on to this server must have access to all resources required by Sage 100 ERP (all rights to all program and data folders in Sage 100 ERP).

After the Application Server has been configured once, you do not need to re-run the Application Server Configuration program to start the Application Server. You can start the Application Server by selecting the Application Server Startup menu item from the Windows Start menu. This starts the Application Server which will continue to run until the user is logged off or the server is shut down.

To view users currently running Sage 100 ERP and the tasks that users are running, click the Sessions tab.

Turning Off the Application Server

There may be instances when you want to turn off the Application Server, such as before installing an operating system update.

To turn off the Application Server

- 1 Run the Application Server Configuration program.
- 2 Click the Servers tab and then click Stop. The Status field changes from Running to Stopped.

You can also turn off the Application Server by closing the Application Server task that appears on the Task Bar of the server. To do this, right-click the task and click Close from the pop-up menu. The Application Server will shut down after a few seconds.

Configuring as a Service

Depending on your needs, you may want to start the Application Server as a service of the operating system. Running as a service has a number of advantages:

- The Application Server can be configured to start automatically so that if the server is rebooted, you do not have to re-start the Application Server.
- It is more secure because someone does not need to be logged onto the server in order for the Application Server to run.

To configure the Application Server as a service

- 1 Configure the Application Server. For instructions, see *Configuring the Application Server* on page 57.
- 2 Exit the Application Server Configuration program after the Application Server has been configured.
- 3 If you already have a Windows domain user account set up to run the Application Server, skip this step; otherwise, create a new domain user on your server that has appropriate access rights to run all the functions and features of Sage 100 ERP. This should include the Modify permission to the application folder, any folders where Sage 100 ERP data is located, the Windows folder, and access to the Registry. This account must also be granted the Log On as a Service right.

If you are not running in a domain environment, create and use a local computer account for your workgroup; however, you must ensure this account can execute a UNC path to the MAS90 folder. Test this by entering the UNC path in Windows Explorer. If you are prompted for a user name and password, the account is not set up properly.

- 4 After a user is created, on the Windows Start menu, select All Programs > Sage > Application Server Service Setup. A dialog box appears.

- 5 Select the path of the Sage 100 ERP installation, if it is different than the default Sage 100 ERP installation path. The Application Server Service installation wizard installs the service components necessary to run the Application Server as a service.
- 6 Use the Services applet to configure the service.
 - a Right-click the Computer shortcut on the system's Desktop, and then select Manage. The Server Manager window appears.
 - b In the left pane of the Server Manager window, select Configuration. The Services item appears in the right pane of the window.
 - c Double-click Services. All of the services available on the server appear in the right pane of the window.
 - d Double-click either Sage 100 Advanced ERP Service or Sage 100 Premium ERP Service, depending on which product you are using. The properties window for the service opens.

**NOTE**

Your screens may vary slightly depending on the version of Windows you are using.

There are two settings you may want to change:

- The startup type, by default, is set to Manual. To have the service start automatically whenever the system is restarted, change the startup method to Automatic. If the service is set to Manual, you will need to launch this window to start up the service each time the server is reset. You may want to set the service to Manual if you plan on performing maintenance on the server and do not want the Application Server service to start up after restarting.
- Change the logon user to the domain user that was created previously to run the Sage 100 ERP Application Server. Provide the user logon and password information where specified.

**WARNING**

Do not run the Sage 100 ERP Application Server service under the Local System account. The Local System account does not have access to certain network resources that Sage 100 ERP requires.

- 7 Click Apply to save any changes.
- 8 On the General tab, click Start to begin the service. The Service Status message changes to Started, and users can now access Sage 100 ERP.

Advanced Features

The Application Server has a number of additional features that can be useful for system administrators. You can enable some of these features for added security or logging purposes; however, these are not required to run Sage 100 ERP. To enable these features, you must log on to the server and start the Application Server Configuration program.

Session Tracking

In the Application Server Configuration window, on the Sessions tab, you can view a list of all the users who are currently in the system and which program they are running. This window also provides you with more detailed information about the machine name, IP address, and connection time for each process. This is useful when trying to find users on the system or people in a particular application. Master Console in Sage 100 ERP can also be used for this purpose.

Individual sessions can also be terminated if they appear to be locked up or become unresponsive. Terminating a process in this manner can cause data corruption issues and should only be done as a last resort. To terminate a session, select the session from the list and then click Terminate.

SSL Encryption

The Application Server can be configured to use SSL to encrypt data being sent to and from the Application Server. This can be extremely useful when using the Internet or any other unsecure medium to connect workstations to the server; however, SSL does add extra overhead in terms of performance. This feature should be enabled only if it is necessary. Using SSL in a secured, intranet environment or over an already protected tunneling protocol (like VPN) is not recommended due to the potential performance impact.

The SSL component of the Application Server uses the OpenSSL protocol and drivers. To use SSL, you must first configure the Sage 100 ERP Application Server to use SSL and then generate an SSL certificate. For more information, see *Generating an SSL Certificate* on page 62.

To configure the Sage 100 ERP Application Server to use SSL

- 1 Make sure all users are out of Sage 100 ERP. After SSL is enabled, a different connection string is required for each of the workstations connecting to the server. Workstations that do not have this additional information will not be allowed to connect to Sage 100 ERP.
- 2 Run the Application Server Configuration program.
- 3 In the Application Server Configuration window, click the Server tab and select the Encrypt check box. The Certificate field becomes enabled and allows you to type the path to the SSL certificate.
- 4 Provide the full path to the certificate relative to the server where Sage 100 ERP is installed. After the certificate is entered and validated, the server automatically updates its configuration.
- 5 On each workstation that will be connecting to Sage 100 ERP, change the Sage 100 ERP shortcut as follows: in the Target command line, add -SSL to the end of the parameter list.

If you receive an error trying to connect to the server after configuring SSL, perform the following:

- Verify that the workstation startup shortcut was modified.
- Verify which startup icon the user used when trying to connect to the server, and verify that the -SSL argument is in the target command line. Users may have more than one shortcut connecting them to the server that need to be modified.



NOTE

If you are unfamiliar with generating a certificate for secure transactions, consult a network consultant or business partner.

Generating an SSL Certificate

To use the SSL capabilities of the Application Server, create a .pem file that contains both the certificate and your private key in X509 format.

For information on generating an SSL certificate, use the Knowledgebase on the Sage Customer Portal at <https://customers.sagenorthamerica.com> to search for the following text: How to generate an SSL certificate.

Configuring the Client/Server ODBC Driver



This chapter applies to:
Sage 100 Advanced ERP

The Sage 100 Advanced ERP server installs client/server ODBC driver components, which allow remote workstations to process worktables using server-side ODBC processing. Report rendering is completed using a locally cached copy of the form or report and a local SAP Crystal Reports print engine.

Server-Side Configuration

Set up the client/server ODBC driver to run as an application or as a service before configuring the server.

Running as an Application or Service

Determine whether to run the client/server ODBC driver as an application or as a service, and perform one of the following:

- To run the client/server ODBC driver as an application, in Windows Explorer, locate and double-click the pvxiosvr.exe file in the following location:

```
..\MAS90\Home\pvxiosvr.exe
```

- To run the client/server ODBC driver as a service, select File > Run on the server and enter the fully qualified path to pvxiosvr.exe followed by the -i parameter. For example:

```
\\ServerName\SharePoint\MAS90\Home\pvxiosvr.exe -i
```

- To uninstall previous versions of the client/server ODBC driver as a service, select File > Run on the server and enter the fully qualified path to pvxiosvr.exe followed by the -u parameter. For example:

```
\\ServerName\SharePoint\MAS90\Home\pvxiosvr.exe -u
```

Configuring the Server

If you set up the client/server ODBC driver to run as a service, follow the procedure for your server's operating system to configure the server.

To configure a server running Windows Server 2012

- 1 From the Sage 100 Advanced ERP server, right-click Server Manager on the system's Desktop.
- 2 In the Server Manager window, on the Tools menu, click Services. The services appear in the right pane of the window.
- 3 Double-click the Sage 100 ERP Client Server ODCB Driver Service item.
- 4 In the Sage 100 ERP Client Server ODCB Driver Service Properties window, at the Startup type field, select Automatic, and then click the Log On tab.
- 5 Click the General tab, and then click Apply.
- 6 Click Start and verify that the service starts successfully.
- 7 Click OK.

To configure a server running Windows Server 2008

- 1 From the Sage 100 Advanced ERP server, right-click My Computer on the system's Desktop, and then select Manage.
- 2 In the left pane of the Server Manager window, select Configuration. The Services item appears in the right pane of the window.
- 3 Double-click the Services item. All of the services available on the server appear in the right pane of the window.
- 4 Double-click the Sage 100 ERP Client Server ODCB Driver Service item.
- 5 In the Sage 100 ERP Client Server ODCB Driver Service Properties window, at the Startup type field, select Automatic, and then click the Log On tab.

- 6 Click the General tab, and then click Apply.
- 7 Click Start and verify that the service starts successfully.
- 8 Click OK.

To configure a server running Windows Server 2003

- 1 From the Sage 100 Advanced ERP server, right-click My Computer on the system's Desktop, and then select Manage.
- 2 In the left pane of the Computer Management window, select Services and Applications. The Services item appears in the right pane of the window.
- 3 Double-click the Services item. All of the services available on the server appear in the right pane of the window.
- 4 Double-click the Sage 100 ERP Client Server ODCB Driver Service item.
- 5 In the Sage 100 ERP Client Server ODCB Driver Service Properties window, at the Startup type field, select Automatic, and then click the Log On tab.
- 6 Click the General tab, and then click Apply.
- 7 Click Start and verify that the service starts successfully.
- 8 Click OK.

Workstation Configuration

Use the Library Master System Configuration task to configure the workstation and then test the ODBC data source.

To configure the workstation

- 1 On the Sage 100 Advanced ERP Desktop, select Library Master Setup menu > System Configuration. The System Configuration window appears.
- 2 Click the ODBC Driver tab, and then select the Enable C/S ODBC Driver check box.
- 3 At the ODBC Server Name field, enter the server name or IP address where the client/server ODBC application or service is running.
- 4 At the ODBC Server Port field, enter an accessible server port or leave the field blank to use the default port, 20222.
- 5 Perform one of the following:
 - If all users (both LAN and remote) will be using the client/server ODBC driver, select the Enable for All Users check box.
 - To enable the ODBC driver for an individual user, select Library Master Main menu > User Maintenance. On the Preferences tab, select the Enable C/S ODBC Driver check box.
- 6 Close and restart the workstation client.
- 7 Access and test the ODBC data source.
 - If running a 32-bit system, perform the following steps:
 - a Select Windows Start menu > Control Panel and double-click the Administrative Tools item.
 - b Double-click Data Sources (ODBC). The ODBC Data Source Administrator window appears.

**NOTE**

If you encounter problems connecting to the client/server ODBC service, see Configuring the Workstation for the ODBC Driver Service on page 119.

- c On the User DSN tab, double-click the SOTAMAS90 item. The ProvideX ODBC Driver Setup window appears. Click the Debug tab, and then click Test Connection.

If a message appears stating that the connection was successful, the client/server ODBC service is running correctly.

- If running on a 64-bit system, perform the following steps:
 - a On the Windows desktop, double-click the Computer icon.
 - b In the Computer window, locate the c:\windows\SysWOW64 folder.
 - c Double-click Odbcad32.exe. The ODBC Data Source Administrator window appears.
 - d On the User DSN tab, double-click the SOTAMAS90 item. The ProvideX ODBC Driver Setup window appears. Click the Debug tab, and then click Test Connection.

If a message appears stating that the connection was successful, the client/server ODBC service is running correctly.

Sharing Permissions

**NOTE**

For more information about setting permissions, see Sage 100 ERP Security Permissions on page 122.

On the Sage 100 Advanced ERP server, you can set the share permissions to allow users to print server reports. You can grant permissions at the share point to allow for Read, Change, or Full Control access. When printing a version 4.x form or report, the user can print to any valid Windows printer, defer reports, or export or e-mail.

Users with no access to the Sage 100 Advanced ERP share point on the server will be able to print to Deferred. To print or preview from Deferred Printing, users must have a minimum of Read access to the Sage 100 Advanced ERP server share point.

Installing SAP Crystal Reports Designer

SAP Crystal Reports Designer is a powerful, graphics-oriented reporting program that allows users to customize their graphical forms. SAP Crystal Reports Designer is fully integrated with Sage 100 ERP. Sage 100 ERP provides a number of customizable SAP Crystal Reports forms as part of the standard installation.

The Workstation Setup program for Sage 100 ERP installs the standard SAP Crystal Reports Run-Time Engine on each workstation, which allows all users to view and print reports created through SAP Crystal Reports; however, to modify the standard forms included with Sage 100 ERP, or to create your own reports, you must install the SAP Crystal Reports Designer.

SAP Crystal Reports Designer is licensed for use with the Sage 100 ERP ODBC driver as well as the standard Microsoft SQL Server ODBC driver.

If you are using Sage 100 Premium ERP, you will need read access to the applicable database. For information, see *Modifying SAP Crystal Reports in Sage 100 Premium ERP* on page 69.

Installing SAP Crystal Reports Designer to the Workstation

To modify or create SAP Crystal Reports forms and reports, install SAP Crystal Reports Designer to the workstation and select the Typical installation option, which uses pre-assigned settings.

To install SAP Crystal Reports Designer to the workstation

- 1 Click a product from the Sage 100 ERP installation Autorun screen, and then on the product screen, click Productivity Applications.
- 2 On the Productivity Applications screen, click Install SAP Crystal Reports Designer.

**NOTE**

Select the Typical installation type.

- 3 The SAP Crystal Reports 2011 for Sage Setup page appears. Follow the steps in the installation wizard to install SAP Crystal Reports Designer. A progress meter appears while the installation is in progress.

Modifying SAP Crystal Reports in Sage 100 Premium ERP

To modify reports in Sage 100 Premium ERP using SAP Crystal Reports Designer, you must either be logged on using a Windows account that has read access to the applicable SQL Server database, or you must have a separate SQL Server authenticated logon ID and password. Integrated Security is used by default; if your Windows account does not have rights to the database, a logon dialog box appears, allowing you to enter a different logon ID and password for database access.

Set up an OLE DB (ADO) Connection

In addition to using SAP Crystal Reports Designer to modify reports, you can also modify the reports through the operating system by setting up an OLE DB (ADO) connection to the SQL Server database. Only modifications such as moving items around on the report, changing font information, and hiding or showing information already in the database is supported.

To set up an OLE DB (ADO) connection

- 1 In Windows Explorer, browse to the .rpt file to modify in the MAS90\Reports folder, and open the file.
- 2 Select Database menu > Database Expert.
- 3 Expand Create New Connection and then expand OLE DB (ADO) to open the OLE DB (ADO) window.
- 4 From the Provider list, select Microsoft OLE DB Provider for SQL Server and click Next.
- 5 Type the server name where the database is installed, select the database, and select the Integrated Security check box.
- 6 Click Finish and then, at the Database Expert window, click OK.

- 7 Save the report. The report is now linked to the SQL Server database. Any dictionary changes that have been made to the table are now available in SAP Crystal Reports Designer.

Converting SAP Crystal Reports from a Prior Version

When upgrading from a prior version of Sage 100 ERP, any custom SAP Crystal reports and forms must be converted to run in version 2013.



NOTE

For information on converting reports for that product, see *Converting Reports for Sage 100 Premium ERP* on page 72.

Converting Reports

The Sage 100 ERP Crystal Report Conversion Wizard converts prior versions of Sage 100 ERP Crystal Reports forms and reports to the latest data dictionary revisions and SAP Crystal Reports format.

To convert reports

- 1 In the MAS90\Home folder, locate and double-click mascrcw.exe. The Sage 100 ERP Crystal Report Conversion Wizard appears. Click Next.
- 2 In the Select Reports page, verify the connection type.
- 3 In the User Name field, type the user logon and type the password in the Password field.
- 4 In the Company field, type your company code in uppercase. Verify that the company selected has the appropriate modules installed. For example, do not convert Manufacturing Crystal reports (W/O or B/M) for demo company code ABC. Those modules do not exist in company ABC, and the conversion will not complete on the reports.
- 5 In the Directory field, verify that the path is correct. Click Next.
- 6 In the Reports Path field, enter the path, or click Browse and select the folder to search for reports that require conversion. All forms and reports that have been previously converted and those that contain the current Sage 100 ERP version as a keyword will not be selected for conversion.



NOTE

This wizard runs the first time you access a SAP Crystal Report created using a level of Sage 100 ERP prior to version 2013.

- 7 Click Search to generate a list of reports. Click Cancel to stop the search. You can select individual or multiple reports within the listing to convert. Select the report, or press CTRL to make multiple selections. Click Select All to convert all reports within the listing. Click Clear to clear the listing. To complete the conversion, click Next.
- 8 In the Completing the Sage 100 ERP Crystal Report Conversion Wizard page, perform one of the following:
 - Click Finish to initiate the conversion process.
 - Click Back to return to the previous wizard or page.
 - Click Cancel to exit the wizard.
- 9 If you clicked Finish, the Converting Reports window appears. Click Save to save the listing of the selected reports and the conversion status of each report. The listing can be printed to the default Windows printer.

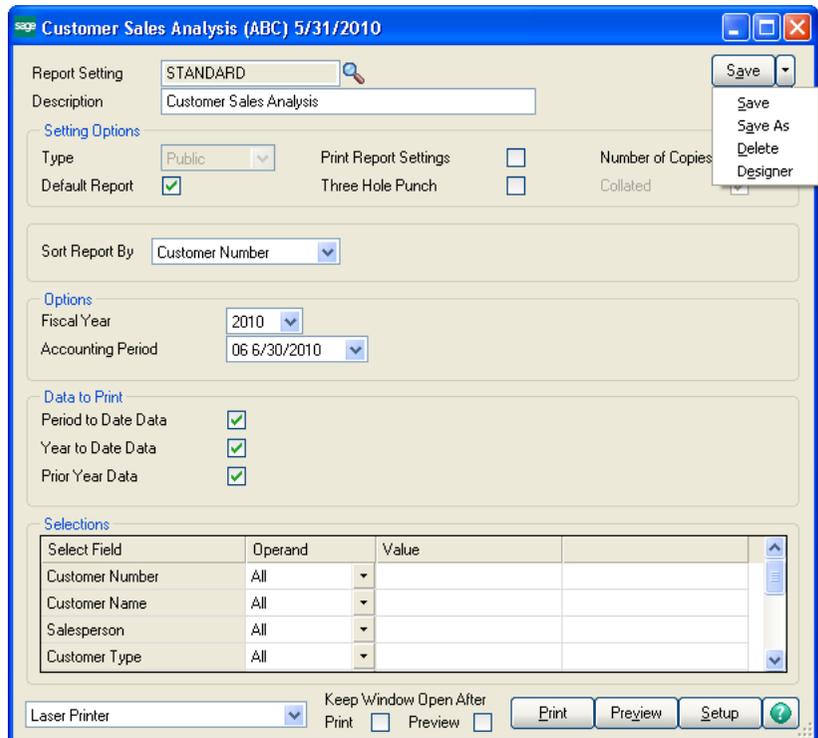
If a field name used within the report or form no longer exists in the data source, it will be noted on the listing and removed from the report or form. If the removed field is contained in a formula, a SAP Crystal Reports error in printing message will appear when printing.

Successfully converted reports generate an unconverted backup file in the same folder with a file extension of .rp_. If Status:Complete appears, the report is successfully converted. If Status:Failed appears, note the error message and verify that the company you are logged onto using ODBC contains application data files for the selected report. If the conversion wizard cannot convert that report, the report must be manually converted. If errors are encountered during the conversion, the wizard will skip the report and continue with the next selected report.

Converting Reports for Sage 100 Premium ERP

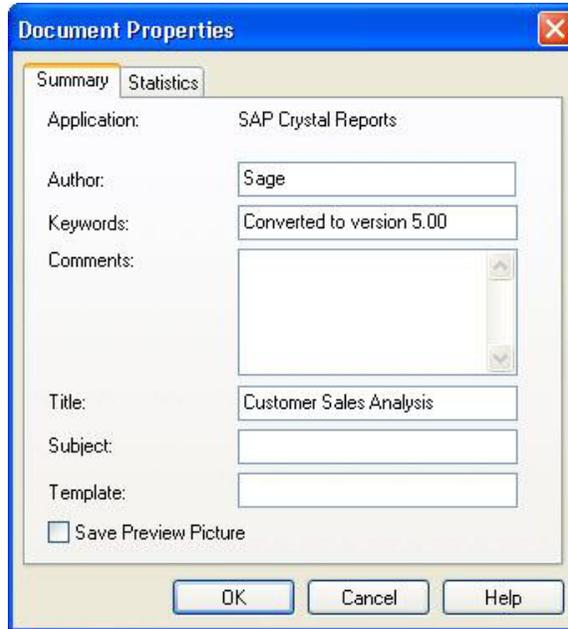
Follow the steps below to convert customized Crystal forms and reports from a prior version for Sage 100 Premium ERP.

- 1 In the form or report printing window, click the drop-down arrow in the top-right corner, and then click Designer.



- 2 In the SAP Crystal Reports Designer window, on the File menu, select Summary Info.

- 3 In the Document Properties window, in the Keywords field, verify the version that appears is the current version, and then click OK.



- 4 On the Database menu, select Verify Database. The OLE DB (ADO) window appears.
- 5 Perform one of the following:
 - If your Windows logon account has Read access to the database, click Finish.
 - If your Windows logon account does not have Read access to the database, clear the Integrated Security check box, enter a user ID with access to the database and its password, and then click Finish.
 - If it is necessary to remap any fields, follow the instructions in the SAP Crystal Reports Designer Help system. Complete these steps for all forms and reports that were customized in the previous version.

Installing Federal and State eFiling and Reporting

Federal and State eFiling and Reporting Overview

**NOTE**

Payroll features in Federal and State eFiling and Reporting are not available in Sage 100 Premium ERP.

Federal and State eFiling and Reporting software allows you to print and electronically file your payroll tax forms and 1099 forms using signature-ready plain paper tax forms. Every report is saved in its own history or draft file for easy retrieval.

Considerations for Installing Federal and State eFiling and Reporting

- To use Federal and State eFiling and Reporting with data created in Sage 100 ERP version 4.20 or prior or from another business management system, perform the upgrade to version 2013 after the quarter end and before the first payroll in the current quarter to avoid values being placed in the wrong boxes on some forms. If conversion is performed mid-quarter, some eFiling and Reporting forms will require editing.
- If you are upgrading from version 4.20 or prior, and a tax limit type other than Annual is selected in Payroll Tax Table Maintenance, your limit values will not be calculated correctly on eFiling and Reporting forms until the first payroll run after upgrading to version 2013.

Installing Federal and State eFiling and Reporting to the Workstation

You must install Federal and State eFiling and Reporting separately on each Sage 100 ERP workstation. Do not install the module on the server.

To install Federal and State eFiling and Reporting to the workstation

- 1 Log on to the workstation as a user with Administrator rights.
- 2 Click a product from the Sage 100 ERP installation Autorun screen, and then on the product screen, click Productivity Applications.
- 3 On the Productivity Applications screen, click Install Federal and State eFiling and Reporting.
 - To begin the installation process from a server installation of Sage 100 Standard ERP, map a drive letter to the share point above the MAS90 folder. In the MAS90\Wksetup folder, double-click Autorun.exe, and then click Install Federal and State eFiling and Reporting on the Autorun screen.
 - To begin the installation process from a server installation of Sage 100 Advanced or Premium ERP, use Windows Explorer to attach to the server share point where Sage 100 ERP is installed. In the MAS90\Wksetup folder, double-click Autorun.exe, and then click Install Federal and State eFiling and Reporting on the Autorun screen.
- 4 The installation wizard for Federal and State eFiling and Reporting appears. Proceed through the steps in the wizard to complete the installation.
- 5 Click Accept to accept the terms of the license agreement. You must accept the agreement to continue with the installation. A progress meter appears while the installation is in progress.

Share and NT File System (NTFS) Permissions

For Sage 100 Advanced and Premium ERP, on the server where Sage 100 ERP is installed, you must set the share permissions to Change. For users that will generate eFiling forms and reports, set the Write permissions to the following folders (where XXX is the company code):

**NOTE**

For more information about setting permissions, see Sage 100 ERP Security Permissions on page 122.

... \MAS_XXX\APXXX\eFilingReporting

... \MAS_XXX\PRXXX\eFilingReporting

The share permissions and folder NTFS permission must be set up before users can use Federal and State eFiling and Reporting.

Chapter 11

Setting Up Credit Card Processing

Use the Credit Card Processing module powered by Sage Payment Solutions for validation and authorization of credit cards through modules such as Accounts Receivable, Sales Order, and eBusiness Manager, as well as eBusiness Web Services.

Sage Exchange

Credit Card Processing is installed with Sage 100 ERP and requires the Accounts Receivable module to be installed as well as a valid merchant account with Sage Payment Solutions. For more information, see Set Up the Credit Card Processing Module in the Help system.

Sage Exchange requires the installation of two components, the Module SDK and the Sage Exchange Desktop application. The Module SDK is installed when installing Sage 100 ERP to install the Sage Exchange certificates. The Sage Exchange Desktop is installed on workstations when tasks requiring communication with Sage Exchange are accessed.

Considerations for Installing Sage Exchange

- Workstations used to process credit card transactions or set up credit card processing require a working Internet connection.
- Add www.sageexchange.com to the list of trusted websites for any workstations that will be using the Sage Exchange Desktop to set up credit card related data.

Enable Credit Card Processing

**NOTE**

If the Credit Card Processing module is not registered, the fields on the Credit Cards tab are not available.

To enable Credit Card Processing perform the following:

- 1 Enable credit card processing for the company.
 - a Select Library Master Main menu > Company Maintenance.
 - b Click the Credit Cards tab and select the Enable Credit Card Processing check box.

Chapter 12

Performing System Startup

After installing Sage 100 ERP, you are ready to set up companies, security, and system preferences. One company must be created in Sage 100 ERP before anyone can access the system.

During the installation, a program group is added to the Windows Start > All Programs menu. Click the Sage 100 ERP Desktop icon in this program group to start the software.

Starting the Software

When first starting Sage 100 ERP, you are prompted to enter the Administrator password that you entered during the installation.



After entering your Administrator password, the Administrative Tools screen appears.

Logging on as Administrator does not give you full access to the software. Only certain Library Master tasks are available. To access the software, you must set up a user logon (other than the Administrator logon) and password in User Maintenance. For more information, see Setting Up Security on page 86.

Performing Administrative Tasks

You can perform the following tasks from the Administrative Tools screen:

- Create and activate companies for new installations (see [Creating and Activating Companies](#) on this page)
- Define user roles, create users, and assign roles to users (see [Setting Up Roles and Users for Security](#) on page 86)
- Set up system preferences (see [Setting System Preferences](#) on page 98)
- Change your administrator password (see [Changing Your Administrator Password](#) on page 104)
- Change your participation in the Sage Product Enhancement Program.



NOTE

You must create and activate companies and then create user roles before creating users.

Creating and Activating Companies

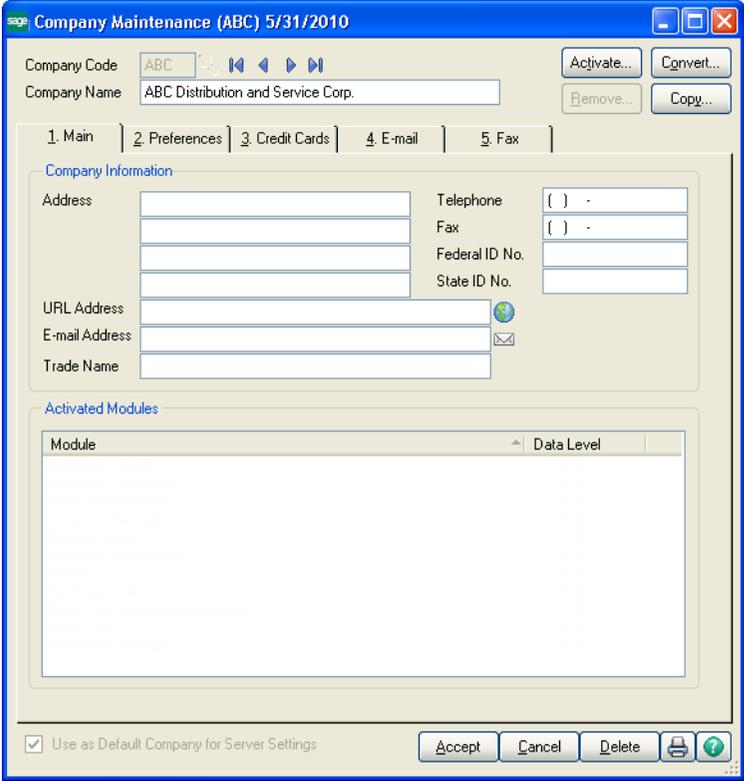
You must create and activate the companies for which data will be processed. Many systems are set up with multiple companies to keep financial records for individual companies separate, and to separate real company data from test company data. Each company is identified using a three-character company code. Within the modules, you can set up data files for each company.

If you are creating companies that contain similar information, you can create companies from an existing company by copying information from the source company. For more information, see [Copying a Company](#) on page 84.

To create and activate a company

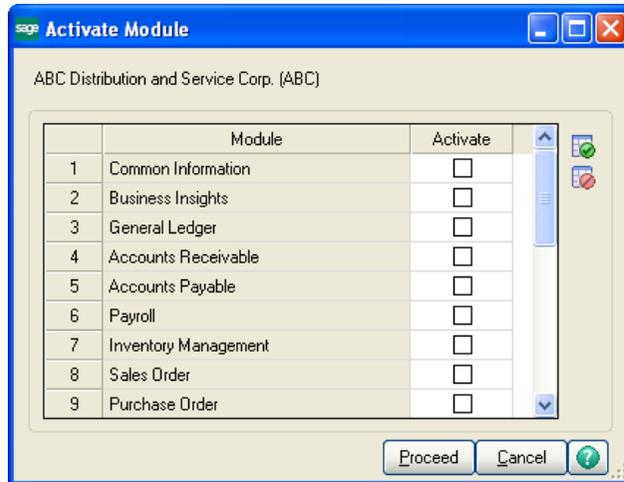
- 1 Use any of the following methods to open the Company Maintenance window:
 - In the Administrative Tools screen, click Company Maintenance.
 - Select Library Master Main menu > Company Maintenance.
- 2 In the Company Maintenance window, enter a company code and company name.

3 Enter the fields appropriate for your company.



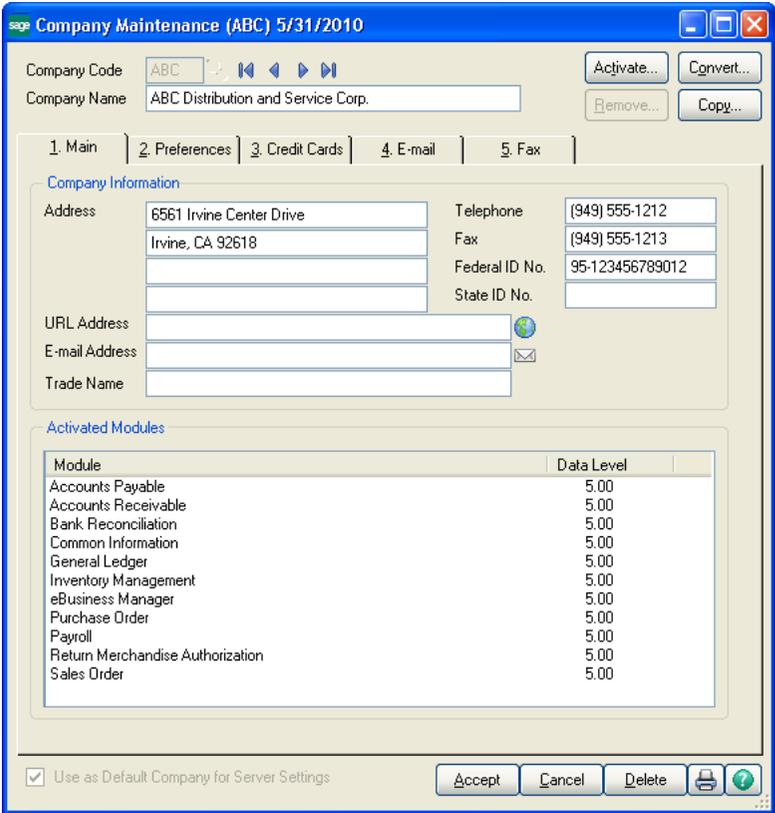
4 Click Activate to activate one or more modules. Click Yes, when you are prompted to save the new company.

- 5 In the Activate Module window, select the module(s) to activate and click Proceed. This process creates data files for each selected module for the company.



- 6 The Company Maintenance window appears again after the activation process is complete. Verify that the modules you selected appear in the Activated Modules section of the window.

The demo data company codes are automatically created and activated if they were selected during the installation process.



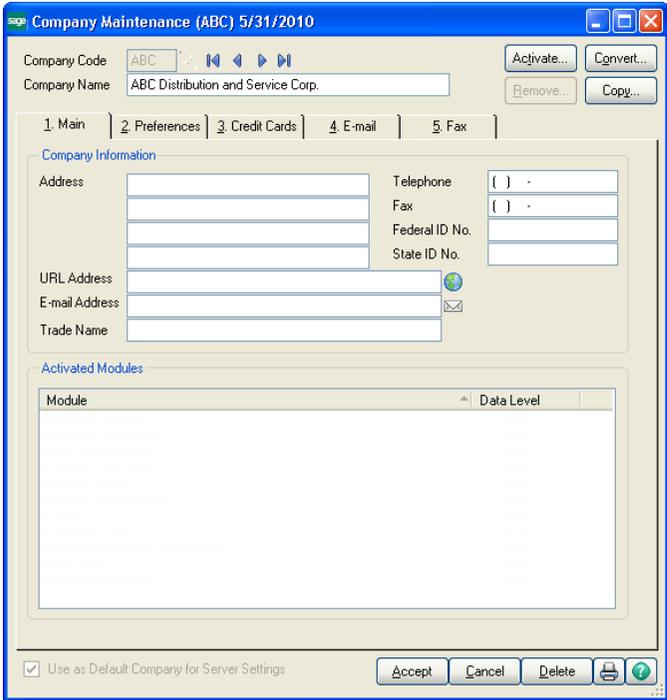
Copying a Company

You can create a new company from an existing company. You can copy information, including company data and company forms, from the source company.

To copy a company

- 1 Use any of the following methods to open the Company Maintenance window:
 - In the Administrative Tools window, click Company Maintenance.
 - Select Library Master Main menu > Company Maintenance.
- 2 In the Company Maintenance window, enter a company code and company name.

NOTE
Although you can define multiple company codes, you must define at least one company code before activating any modules.



- 3 Click Copy.
- 4 In the Copy Data window, at the Source Company field, enter the company you are copying from.

**NOTE**

If credit card payment types exist for the source company, the Sage Exchange Desktop will be automatically installed on the workstation.

Options		Data	Forms
1	C/I Common Information	<input checked="" type="checkbox"/>	N/A
2	E/S Business Insights	<input checked="" type="checkbox"/>	N/A
3	G/L General Ledger	<input checked="" type="checkbox"/>	N/A
4	A/R Accounts Receivable	<input checked="" type="checkbox"/>	N/A
5	A/P Accounts Payable	<input checked="" type="checkbox"/>	N/A
6	P/R Payroll	<input checked="" type="checkbox"/>	N/A
7	I/M Inventory Management	<input checked="" type="checkbox"/>	N/A
8	S/O Sales Order	<input checked="" type="checkbox"/>	N/A
9	P/O Purchase Order	<input checked="" type="checkbox"/>	N/A
10	R/A Return Merchandise Authorization	<input checked="" type="checkbox"/>	N/A
11	B/R Bank Reconciliation	<input checked="" type="checkbox"/>	N/A
12	I/T eBusiness Manager	<input checked="" type="checkbox"/>	N/A

**NOTE**

For Sage 100 Premium ERP, only data can be copied.

- 5 To copy data and/or forms, select the corresponding check boxes.
- 6 Click Proceed.

Upgrading and Converting Data

If you are upgrading data from a previous installation, refer to your *Customer Upgrade Guide* for upgrading instructions.

Setting Up Security

Sage 100 ERP offers a flexible security system that can be used to provide appropriate access to the system and to meet your company's specific requirements. The security system can be simple, or it can be elaborate, protecting various combinations of companies, modules, menus, tasks, and security permissions by creating multiple roles, and assigning these roles to users. Roles are assigned to users so that users are restricted to only those tasks that pertain to the roles they are assigned to. If the user attempts to access a secured area, access is denied.

Setting Up Roles and Users for Security

To implement effective security, you must define roles for your system, and then create user codes and assign users to specific roles.

The security for Sage 100 ERP is role-based. Roles should be set up to reflect the functional roles of your organization. You should define roles with access to certain modules, tasks, and security events that allow users to perform tasks related to their jobs. Roles are company independent, though you can assign roles to users who are restricted from entering certain companies.

A Default role is included in Sage 100 ERP. Users assigned to the Default role have access to all modules except security events. The Default role cannot be modified in Role Maintenance.

When establishing your system's security, use the concept of roles to identify the specific tasks and options you want users to be able to access. Users can be assigned to multiple roles so design your roles to be as granular as you like. Role permissions are cumulative, which means if a user is assigned to two roles where one role gives the user access to a program while another role does not, the user will be granted access to this program.

You must determine the requirements for your security system. In most cases, it is better to start with a simple arrangement. As more sophistication is needed, this flexible system can be easily refined.

Defining Roles



NOTE

To access Role Maintenance, you must be logged on as Administrator, or have a role assigned to you that allows access to Role Maintenance.

Roles are set up to reflect the functional roles within an organization. These roles are global to the software and are company independent. Permissions assigned to roles allow assigned users access to the areas of the software they need to perform their job functions.

For modules other than Job Cost, Material Requirements Planning, Payroll, TimeCard, and Work Order, security can be further refined by assigning Create, Modify, Remove, or View permissions to maintenance tasks, or by setting Update or Print Only permissions to update tasks. For setup tasks, permissions can be set to Modify or View. Additionally, some module options, such as allowing batches to be merged can be allowed or restricted.

Defining roles is considered the first step in enabling security for your system. Before you define roles in your system, determine the functional roles needed for your organization.

After you have created a role, you can create a copy of it for use as a starting point when creating additional roles.



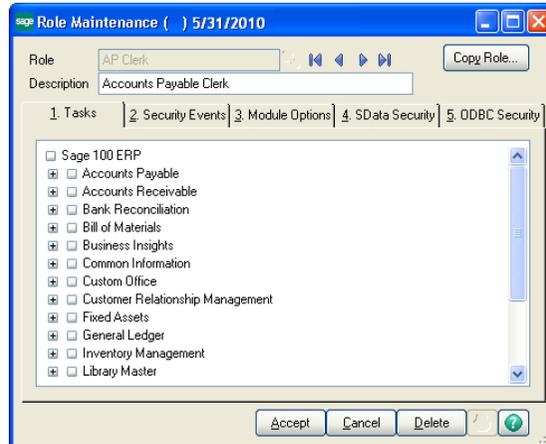
NOTE

Library Master tasks are not company-specific.

To define roles

- 1 Use any of the following methods to open the Role Maintenance window:
 - In the Administrative Tools screen, click Role Maintenance.
 - Select Library Master Main menu > Role Maintenance.
- 2 In the Role Maintenance window, at the Role field, type the name of the role (for example, AP Clerk).

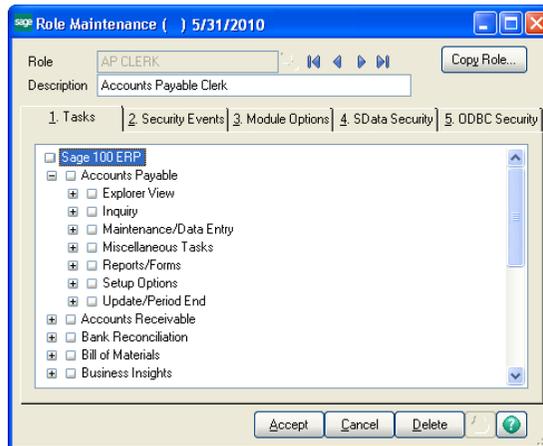
- 3 At the Description field, type a description for the role (for example, Accounts Payable Clerk).



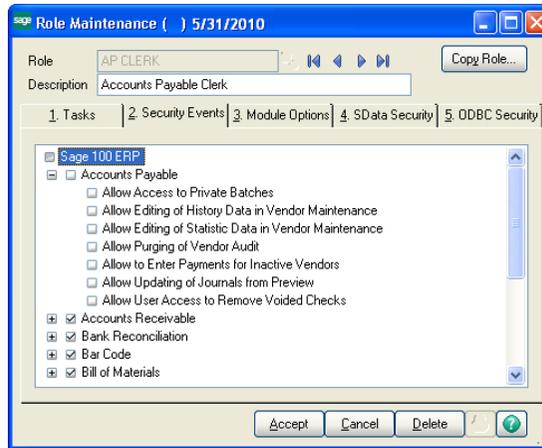
- 4 On the Tasks tab, you can restrict access to modules, tasks, or security permissions within tasks.
- To expand each level, click the + graphic. To select all items in a level, select the check box next to the option.
 - To refine the level of security to individual modules and tasks, select the check box next to the individual modules that you want to allow access to.
 - You can further allow or restrict the level of access to tasks within a module by selecting or clearing the check boxes for tasks within modules.

**NOTE**

To allow access to all modules and all security permissions, for the role, select the Sage 100 ERP check box.



- 5 On the Security Events tab, select the check boxes next to the module and security events that you want to assign to the role. For more information, see Role Maintenance in the Help system.



- 6 On the Module Options tab, select the check boxes next to the options to which you are allowing access.
- 7 On the SData Security tab, select the check boxes next to the module and business tables that you want to assign to the role.
- 8 On the ODBC Security tab, select the check boxes next to the module, data tables, and fields that you want to assign to the role.
- 9 Click Accept and repeat this procedure for each role you want to define.



NOTE

The ODBC feature is not available in Sage 100 Premium ERP.

To Copy a Role from an Existing Role

- 1 Use any of the following methods to open the Role Maintenance window:
 - In the Administrative Tools screen, click Role Maintenance.
 - Select Library Master Main menu > Role Maintenance.
- 2 Select the role that you will copy from.

- 3 Click Copy Role.
- 4 In the Copy Role window, enter the name and description of the new role to create.



- 5 Select the check boxes for copying menu tasks, security events, and module options permissions, then click Proceed.
- 6 Make necessary changes on the Tasks, Security Events, Module Options, SData Security, and ODBC Security tabs.
- 7 Click Accept.

After defining all roles for the system, you can create users, and then assign these roles to users. For more information, see *Creating Users and Assigning Roles* on page 91.

Creating Users and Assigning Roles

Defining a user includes setting up a logon and password, assigning access to specific companies, and assigning a role or multiple roles to the user.

A user account can be defined with an expiration date to lock the user out of the system after a certain amount of time. You can also define start and end dates for any role assigned to the user. This feature allows a user access to certain areas of the system and security events for the limited period of time.

Before you create user logons and passwords, decide whether your system will require a unified logon or a Sage 100 ERP logon for all users. For more information, see Requiring a Password on page 98.

**NOTE**

You can access User Maintenance only if you are logged on as Administrator, or if you have a role assigned to you that allows access to User Maintenance.

To create a user and assign a role

- 1 Use any of the following methods to open the User Maintenance window:
 - In the Administrative Tools screen, click User Maintenance.
 - Select Library Master Main menu > User Maintenance.
- 2 In the User Maintenance window, enter the User Logon field. If you selected the Use Unified Logon check box in the System Configuration window, this field must match the Windows logon name for the user. For more information, see Requiring a Password on page 98.

Company	Role	Start Date	Expiration Date
1			

- 3 Enter the First Name, Last Name, and User Code fields. The user code is only referenced in the software and is not used for logon purposes.
- 4 If the selected user will be performing group customizations in the Customizer module, enter the Customization Group field.

- 5 Enter the Expires field to lock the user account after a certain date. A user will not be able to access the system after the date entered.
- 6 If you selected the Require all Users to Enter a Password check box in the System Configuration window, enter the Password and Confirm Password fields. If you do not enter a password, when logging on to the software, the user will be prompted to enter a password. For more information, see Requiring a Password on page 98.
- 7 Select the company and role to assign to the user. You can assign multiple companies and roles to the user.

The screenshot shows the 'User Maintenance' window for user 'jwsmith'. The window has two tabs: '1. Maintenance' and '2. Preferences'. The 'Maintenance' tab is active, displaying a table with columns for 'Company', 'Role', 'Start Date', and 'Expiration Date'. Two rows are visible, both with empty 'Start Date' and 'Expiration Date' fields. Below the table, there is a checkbox for 'User Account Locked' and buttons for 'Accept', 'Cancel', and 'Delete'.

	Company	Role	Start Date	Expiration Date
1	ABC (ABC Distribution and Service Cor)	AP Clerk		
2				

- 8 Enter a Start Date and Expiration Date for each role to start and end for the selected company, if required.
- 9 Click the Preferences tab and select user-specific preferences for the user and click Accept. For more information, see Setting Additional User Preferences for Security on page 95.

**NOTE**

If you have multiple roles assigned to a user, the role with the most access takes precedence.

Copying a User

You can create a new user from an existing user. You can copy information including roles and preferences.

To copy a user

- 1 Use any of the following methods to open the User Maintenance window:
 - In the Administrative Tools screen, click User Maintenance.
 - Select Library Master Main menu > User Maintenance.
- 2 In the User Maintenance window, enter a new user logon.

The screenshot shows the 'User Maintenance (ABC) 5/31/2010' window. It features a 'User Logon' field with the value 'dip', a 'Copy...' button, and a 'Rename...' button. Below these are fields for 'First Name', 'Last Name', 'User Code', 'Password', 'Confirm Password', 'Customization Group', and 'Expires'. There are two tabs: '1. Maintenance' and '2. Preferences'. The 'Maintenance' tab is active, displaying a table with the following columns: 'Company', 'Role', 'Start Date', and 'Expiration Date'. The table has one row with the number '1' in the first column. At the bottom of the window, there is a checkbox for 'User Account Locked' and buttons for 'Accept', 'Cancel', 'Delete', and a help icon.

- 3 Click Copy.

- 4 In the Copy User window, at the Copy From field, enter the user you are copying from.



- 5 Select whether you are copying all user information including roles and preferences, and then click Proceed.

Setting Additional User Preferences for Security



NOTE

You can access User Maintenance only if you are logged on as Administrator, or if you have a role assigned to you that allows access to User Maintenance.

User preferences are preferences that apply to each user. You can set up additional security measures for individual users such as setting a workstation to automatically log off, and manually locking certain users out of the system.

For security purposes, a workstation can automatically log off if it is left unattended for a specified period of time. This feature ensures that workstations are not accidentally left with the software running, allowing unauthorized users access to sensitive information.

The Automatic Logoff feature is not activated if the Sage 100 ERP Desktop is the active window on your workstation. In addition, the Sage 100 ERP Desktop does not automatically shut down any activity in process, such as an update or report, that is currently processing, or if the Sage 100 ERP Desktop is idle within an option's window, such as a data entry or inquiry window.

Setting a Workstation to Automatically Log Off

To automatically log off a workstation

- 1 Use any of the following methods to open the User Maintenance window:
 - In the Administrative Tools screen, click User Maintenance.
 - Select Library Master Main menu > User Maintenance.
- 2 Select a user at the User Logon field.
- 3 Click the Preferences tab and select the Automatic Logoff check box.

The screenshot shows the 'User Maintenance (ABC) 5/31/2010' window. The 'User Logon' field contains 'jwsmith'. The 'First Name' is 'John' and the 'Last Name' is 'Smith'. The 'User Code' is 'JWS'. The 'Password' and 'Confirm Password' fields are masked with '\$'. The 'Preferences' tab is selected, and the 'Automatic Logoff' checkbox is checked. The 'Automatic Logoff Delay in Minutes' field is empty. Other settings include 'Implied Decimal Point' checked, 'Use Graphic Report Format' checked, 'Low Speed Connection' unchecked, 'Partial Lookup Default' set to 'Begins with', 'Lookup Limit for Initial Display' set to 0, 'Prompt for Company Code' unchecked, '[ENTER] Key Like [TAB] Key for Grid' checked, 'Default Report Preview Zoom' set to 100%, 'Display Reduction Amounts in Red' checked, 'Enable C/S ODBC Driver' unchecked, and 'Enable Web Services' unchecked. The 'User Account Locked' checkbox is unchecked at the bottom left. Buttons for 'Accept', 'Cancel', and 'Delete' are at the bottom right.

- 4 At the Automatic Logoff Delay in Minutes field, type the number of minutes that the system is to remain active before automatically logging off this workstation. The maximum amount of time that can be specified is 999 minutes.
- 5 Click Accept. After you save a user record, the dollar signs (\$) in the Confirm Password field disappear.

Locking Users Out

Another security feature is the option to lock users out of the system. This procedure illustrates how to manually lock users out of the system. Users can also be locked out of the system if a number of incorrect logon attempts occur, or if the expiration date for all users' roles has expired. This can be done using the System Configuration task.

To lock users out of the system

- 1 Use any of the following methods to open the User Maintenance window:
 - In the Administrative Tools screen, click User Maintenance.
 - Select Library Master Main menu > User Maintenance.
- 2 Select a user at the User Logon field.

The screenshot shows the 'User Maintenance' window for user 'jwsmith'. The window title is 'User Maintenance () 5/31/2010'. The user details are as follows:

User Logon	jwsmith	First Name	John	Last Name	Smith	User Code	JWS
Password	\$\$\$\$\$\$\$\$	Confirm Password	\$\$\$\$\$\$\$\$	Customization Group		Expires	

Below the details is a table with two rows:

	Company	Role	Start Date	Expiration Date
1	ABC (ABC Distribution and Service Cor)	AP Clerk		
2				

At the bottom of the window, there is a checkbox labeled 'User Account Locked' which is currently unchecked. To the right of this checkbox are buttons for 'Accept', 'Cancel', and 'Delete'.

- 3 Select the User Account Locked check box and click Accept.

Setting System Preferences

The software is equipped with a number of features that can effectively keep unauthorized users from accessing programs and files. In addition to basic security features, additional measures can be taken to further secure your data. These additional measures include, requiring a password, enabling intruder detection, and specifying lockout duration.

Requiring a Password

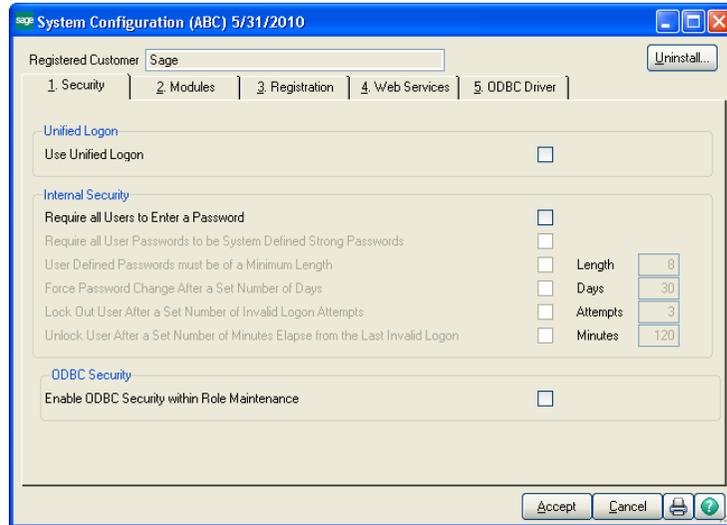
To further protect your system, you can require all users to have a password. First decide if you will set up your users with a unified logon, or a Sage 100 ERP logon. A unified logon allows Sage 100 ERP to authenticate and use the Windows logon. If you implement a unified logon, users do not need to reenter a logon and password when accessing the software. You can, however, require that users enter their password before accessing the software. A Sage 100 ERP logon is independent of the Windows logon, and will be required to enter the software.

When you set up a Sage 100 ERP logon, you can enable intruder detection. Intruder detection locks a user out of the system when a certain number of logon attempts fail. This prevents unauthorized users from trying numerous passwords while attempting to access your system.

To require a unified logon

- 1 Use any of the following methods to open the System Configuration window:
 - In the Administrative Tools screen, click System Configuration.
 - Select Library Master Main menu > System Configuration.

- In the System Configuration window, select the Use Unified Logon check box to enable a unified logon for each user.



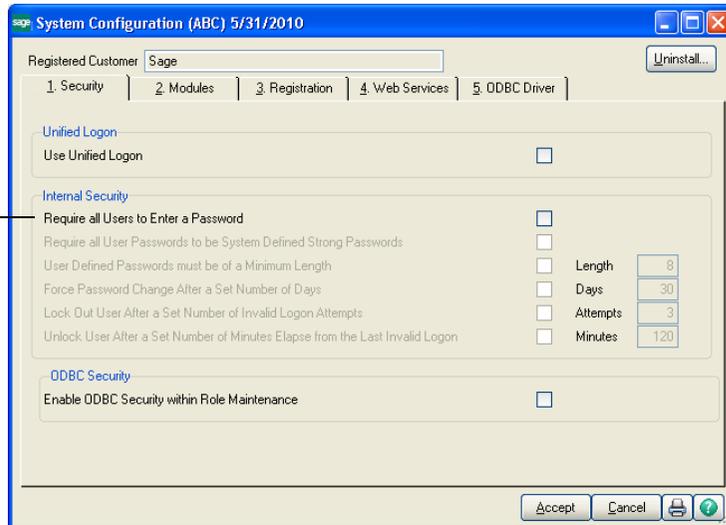
- Click Accept.

To require a Sage 100 ERP password

- Use any of the following methods to open the System Configuration window:
 - In the Administrative Tools screen, click System Configuration.
 - Select Library Master Main menu > System Configuration.

- In the System Configuration window, select the Require all Users to Enter a Password check box.

If this check box is selected after user codes are set up without passwords, when a user accesses the software, a dialog box will prompt the user to define a password.

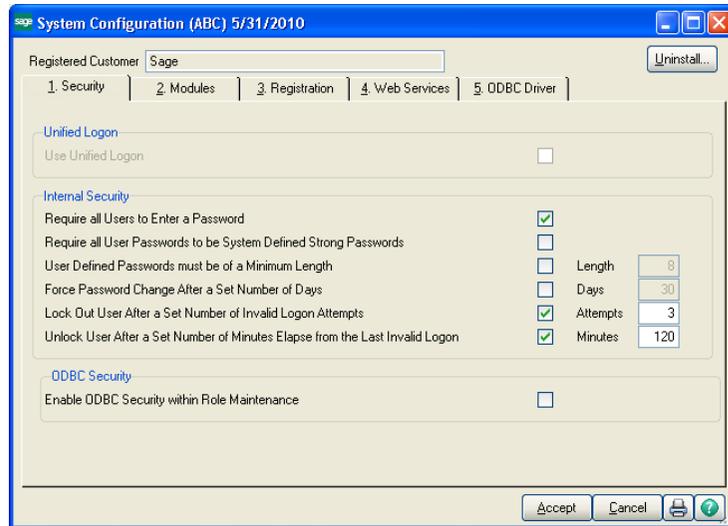


- To require passwords that are at least eight characters in length, include both letters and numbers, and do not include repeating characters, select the Require all User Passwords to be System Defined Strong Passwords check box.
- To include a minimum length on passwords, select the User Defined Passwords must be of a Minimum Length check box, and type a minimum number of characters needed for passwords.
- To require all users to change their password after a number of days, select the Force Password Change After a Set Number of Days check box, and type a number of days.
- To enable intruder detection, select the Lock Out User After a Set Number of Invalid Logon Attempts check box, and then type the number of attempts you will allow before a user is locked out of the system (cannot attempt to log on anymore).

**NOTE**

If you do not specify a lockout duration, a user locked out by intruder detection can attempt to log back onto the system only if the User Account Locked check box is cleared in the User Maintenance window.

- 7 To specify an optional lockout duration, select the Unlock User After a Set Number of Minutes Elapse from the Last Invalid Logon check box, and type the amount of time you want the lockout to be in effect. After the amount of time has passed, the user can attempt to access the system.



- 8 Click Accept.

Setting Accounting Date Preferences

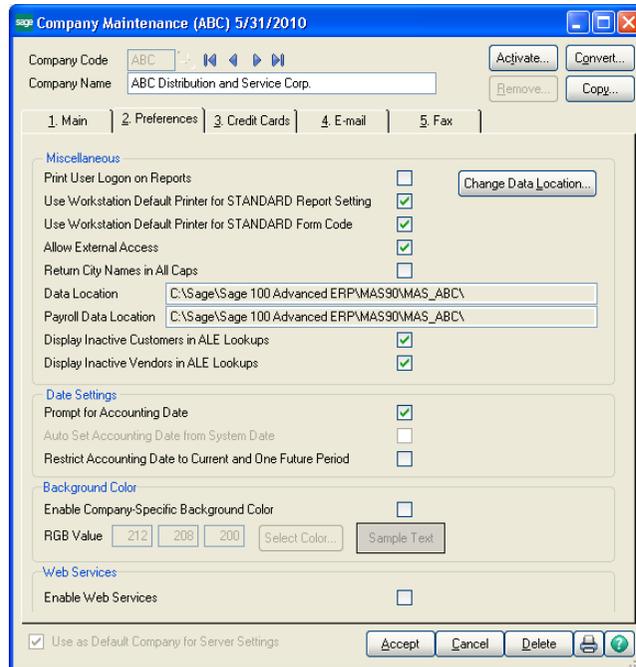
The software maintains personal preferences for each workstation. One of these preferences is to prompt for the accounting date the first time a user accesses a module for that day, or you can automatically default the accounting date based on the system date.

Setting a Prompt for the Accounting Date

If a prompt for the accounting date is not set in Company Maintenance, the module defaults to the accounting date it was last set at on that workstation, unless the Auto Set Accounting Date from System Date check box is selected.

To set a prompt for the accounting date

- 1 Select Library Master Main menu > Company Maintenance.
- 2 On the Preferences tab, select the Prompt for Accounting Date check box. The default date is the system date.



- 3 Click Accept.

Setting the Accounting Date from the System Date

The accounting date for all modules can be set from the workstation's system date for convenience and to ensure that users do not accidentally use an old accounting date.

To set the accounting date from the system date

- 1 Select Library Master Main menu > Company Maintenance.
- 2 On the Preferences tab, select the Auto Set Accounting Date from System Date check box.
- 3 Click Accept.

Restricting the Accounting Date to Current and One Future Period

When performing certain data entry and register printing functions, the accounting date is used as the default. When the posting date used for updates does not fall within the current and one future period for the module, the summarized totals for the current or future period will not match the transaction detail reports.

To prevent this problem, you can restrict the accounting date to the current and one future period for the Accounts Payable, Accounts Receivable, Inventory Management, Job Cost, Purchase Order, and Sales Order modules.

To restrict the accounting date

- 1 Select Library Master Main menu > Company Maintenance.
- 2 On the Preferences tab, select the Restrict Accounting Date to Current and One Future Period check box.
- 3 Click Accept.

Changing Your Administrator Password

Changing your administrator password on a frequent basis is a good idea to protect your system from unauthorized users.

To change your administrator password

- 1 In the Administrative Tools screen, click Administrator Password.



- 2 In the Administrator Security Password window, enter a new password and then confirm the password. Click OK.

Setting Up Security for Sage CRM

This section describes basic security concepts for Sage CRM, including how to log on after installing, passwords, and the types of security that can be set up. For more information about Sage CRM security, refer to your Sage CRM *System Administrator Guide*.

Logging On as the Administrator

After installing Sage CRM, you can log on as the system administrator with a user name of admin and no password. You should also change the password to prevent unauthorized administrative access.

User Authentication / Password Setup

A user requires a user name logon ID to access the system. You can also set the minimum length and strength of passwords. A user's password is encrypted both within the system and in the database for maximum security. The System Administrator can change, but not view, a user's existing password.

A password can also be set to expire within a specified number of days. When the password is changed, the expiration date is adjusted accordingly.

Security Profiles and Territories

The system administrator can manage security access rights across the organization by setting up security profiles and territories. A profile is a way of grouping users together when defining access rights (for example, View, Update, Insert, and Delete).

In addition to basic access rights profiles, you can further divide users rights by territory. For example, you may want users in the West Coast territory to view all Opportunities within the East Coast territory, but not to be able to update them.

Field Security

The system administrator can set up field security for the entire Sage CRM system, for individuals, teams, and for security profiles.

For example, it is possible to make a field invisible to some users, allow others to view the contents of the field but not to change it, and allow others to both view and change it. In addition, it is possible to require a field entry before the user can submit the form. For more information on field security, refer to your Sage CRM *System Administrator Guide*.

Company Team Restrictions

Rights to view the following tabs can be restricted to individual users depending on company team membership. If a user has not been assigned to work on an account on the Company Team tab, that user cannot view or update information in the following tabs:

- Quick Look
- Dashboard
- Marketing (if available)
- Notes
- Communications
- Opportunities
- Cases
- Company Team
- Documents

The tabs are displayed with "no entry" symbols. If the user selects one of the restricted tabs, a message is displayed informing the user that this information is available only to members of the appropriate team.

If the user searches for a related entity, such as an Opportunity, and they are not on the Company Team of the associated company, when they click the hyperlink of the entity in the list, a security message dialog box is displayed.

Restricting Updates

The Delete and Edit buttons are available on the Company summary page only if the user is on the Company team.

In addition, rights to update the following tabs can be restricted for individual users depending on Company Team membership. This means that if you have not been assigned to work on an account using the Company Team tab, you can view, but not update any of the following information related to that account:

- Quick Look
- Notes
- Communications
- Leads
- Opportunities
- Cases
- Documents

Server Security

There are many ways to secure the system from unauthorized access:

- Use NT Challenge/Response to allow access to clients with a valid domain login.
- Use SSL Encryption to secure your data sessions with client users.
- Use a firewall to restrict unauthorized access from outside of your network and allow only authorized users through.

You can use all three or a combination of the above methods to secure connections to the system.

Database Security

Users do not have direct access to the SQL database for the Sage CRM server. The eWare DLL accesses the database by using a predefined logon. When a user requests data, the eWare DLL connects to the database using Microsoft Data Access Components (MDAC) and retrieves the required data.

For more security the eWare DLL can be configured to access SQL using a login with limited access, or access with the appropriate rights to add, change and delete data from every table in the database.

For information on changing the SQL logon password, refer to your Sage CRM *System Administrator Guide*.

Firewalls

To allow users to access the system remotely, the best way to protect your network from the Internet is to install a firewall. This will ensure that only authorized traffic accesses your Sage CRM database and protects your server from unauthorized users. You can configure rules to allow only certain traffic through. By doing this you can ensure that your server is protected from Internet attacks. You can also install a firewall in all of your remote sites and set up Virtual Private Networks (VPNs) to increase the security of data being sent. Mobile users can be set up as mobile firewall users so they can access the VPN to transmit and receive data securely.

SSL (Secure Sockets Layer)

Without using a firewall, IIS can use different methods to secure transmitted and received data. One of these methods is by using an SSL server certificate. This ensures that data that has been transmitted and received between the server and the user is encrypted. There are two versions of SSL encryption: 40-bit and 128-bit. It is currently possible to crack the 40-bit encryption, but not 128-bit. SSL cannot protect your server from unauthorized access, only encrypt sessions between the server and a user.

An SSL certificate can be imported into IIS to create a secure connection between Sage CRM and its users. When a client logs onto Sage CRM, the SSL certificate is downloaded and the data sent to and from the client is encrypted. Using this method, anybody can log on and download the SSL certificate. To be more secure, IIS can be configured to only allow clients with a SSL certificate installed on their machine and deny anybody without the appropriate certificate. IIS can also use Windows NT Challenge/Response, which requests a user to log on using a valid user name and password for that domain before allowing them access to data.

Application Security

All users must be assigned a valid user name and password by the system administrator. Each user can be assigned different levels of access security depending on their job role (for example, IT, Accounts). To increase security, all users should be advised to use an alphanumeric password of no fewer than six characters. When IIS uses SSL encryption, Sage CRM is aware of this and when the client attaches any documents to a form in Sage CRM, it sends it through the encrypted session.

Chapter 13

System Administrator Tasks

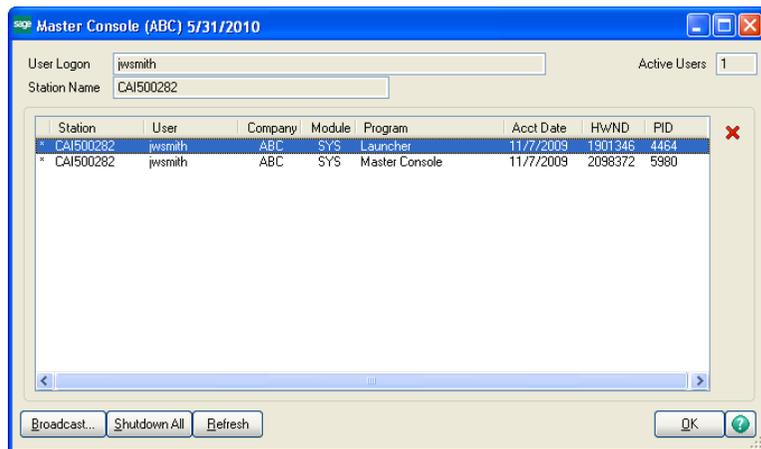
This chapter provides procedures for maintaining certain tasks that are performed by a system administrator.

Determining Who is Accessing the System/Modules

Use Master Console to display all currently logged on users. The Master Console includes data on each workstation, the module and task being accessed, and the accounting date for each user.

To determine who is accessing the system/modules

- 1 Use either of the following methods to open the Master Console window:
 - Select Library Master Main menu > Master Console.
 - Select File menu > Master Console.
 - On the Standard toolbar, click the Master Console button.
- 2 In the Master Console window, determine the module and task being accessed by viewing the Module column and the Program column.



Creating Public Tasks

To access tasks quickly, you can organize them into groups in public task folders that all users can access. In addition to tasks, you can also add desktop shortcuts and external programs, such as Microsoft Word or Excel, into a public task folder so that users can select and launch one of these programs without leaving the software.



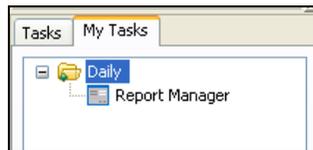
NOTE

To create public tasks, the role assigned to your user code must have the Allow public tasks for editing security event turned on.

Even though public task folders are accessible to all users, individual menu tasks within a task folder are still subject to the standard menu security system (if one has been set up). All company, module, menu, and task restrictions assigned to users override all task folder assignments.

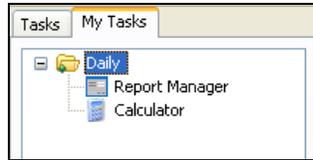
To create a public task folder and public tasks

- 1 On the Sage 100 ERP Desktop, click the My Tasks tab. Right-click the My Task area and select New > Public Folder.
- 2 Type a name for the public task folder and press ENTER.
- 3 Right-click the folder and select New > Task.
- 4 In the Browse dialog box, select the module, the menu, and then the menu task to add to the folder and click Open. The task is added to the public tasks folder.



- 5 To add more public tasks to this folder, repeat steps 3 and 4, as necessary.
- 6 To add an external program to the public tasks folder, right-click the public task folder and select New > Program.

- 7 In the Browse dialog box, click the Folder button and select the external program, then click Open. The external program is added to the public task folder.



- 8 To add more external programs to this folder, repeat steps 6 and 7, as necessary.
- 9 You must exit the software and log back on for the new public folder to be accessible. You can access the public task folder from the My Tasks menu on the Modules Menu toolbar, or the My Tasks tab.

**NOTE**

All users must exit the software and log back on before they can see the new public task folder.

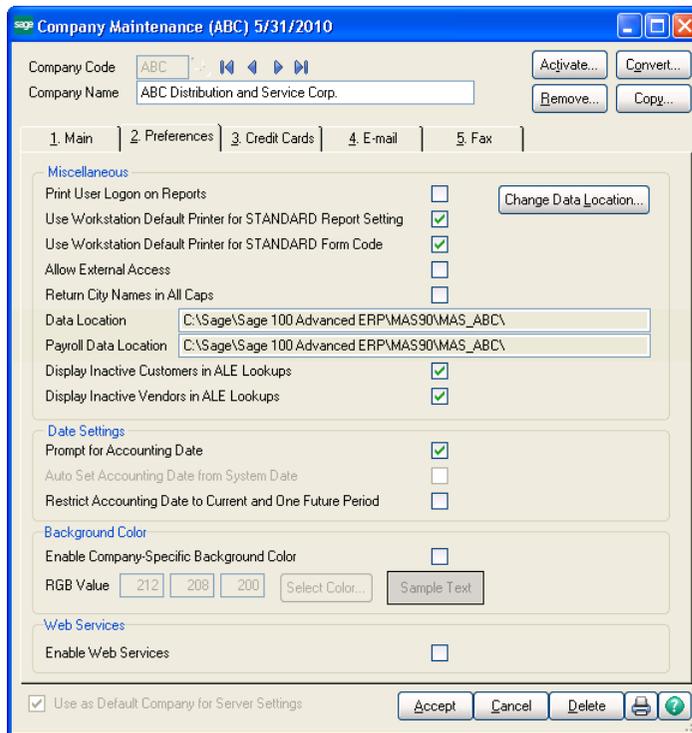
You can also delete existing public task folders, and modify existing tasks or program titles. You can create an unlimited number of public task folders, and each folder can contain any number of tasks and programs.

Modifying Company Preferences

For each company, you can set a preference to print a user logon on all reports, allow the company to be accessed externally, and change the location of the company data and Payroll folder.

To modify company preferences

- 1 Use any of the following methods to open the Company Maintenance window:
 - In the Administrative Tools screen, click Company Maintenance.
 - Select Library Master Main menu > Company Maintenance.
- 2 In the Company Maintenance window, click the Preferences tab.



- 3 To display the user logon of the user generating a report or listing on all reports, select the Print User Logon on Reports check box.
- 4 To default to the workstation's default printer when printing reports (such as the General Ledger Detail Report) with the STANDARD report setting, select the Use Workstation Default Printer for STANDARD Report Setting check box. Clear this check box to save a specific printer as the default for the STANDARD report setting in the report windows.
- 5 To default to the workstation's default printer when printing forms (such as sales orders) with the STANDARD form code, select the Use Workstation Default Printer for STANDARD Form Code check box. Clear this check box to save a specific printer as the default for the STANDARD form code in the form windows.
- 6 To change the location of the company data and Payroll folder for security reasons, click Change Data Location, and type the path of the new location. The data location is company-specific and not module-specific. The path must be appended with MAS_XXX, where XXX represents the company code.
- 7 Click Accept.

Uninstalling Modules

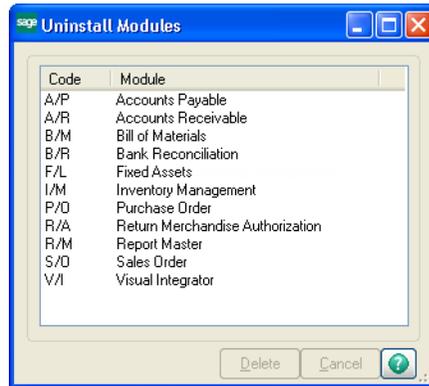
You can remove all menu records and programs from the software for a specific module. Prior to removing modules, this utility will check to ensure there are no data files for that module. If data files exist, they can be deleted using the Remove feature in Company Maintenance.

The Custom Office module cannot be removed using Uninstall Modules. Removing this module will impact access to customized forms and user-defined fields (UDFs).

Removing the Visual Integrator (VI) module will remove the module from the Modules menu; however, the VI folder and two associated files, VIOPER and VI0XRF, will remain in the file structure. The VI0XRF file contains the definitions for the default VI perform logic and is a cross-referenced file that provides shared UDF access between Visual Integrator and Custom Office.

To uninstall a module

- 1 Use either of the following methods to open the System Configuration window:
 - In the Administrative Tools screen, click System Configuration.
 - Select Library Master Setup menu > System Configuration.
- 2 In the System Configuration window, click Uninstall.
- 3 In the Uninstall Modules window, select the module to uninstall and click Delete.



Chapter 14

Advanced Features and Troubleshooting



This chapter applies to:
Sage 100 Advanced ERP
Sage 100 Premium ERP

This chapter explains some of the advanced features of Sage 100 Advanced and Premium ERP, including Remote Access using Windows Routing and Remote Access Service (RRAS), push-down installation through Microsoft's Systems Management Server (SMS), and some basic troubleshooting techniques. Detailed technical information required by some IT professionals is also provided; some of the content in this chapter may not be applicable to every Sage 100 ERP user.

Remote Access

Sage 100 Advanced and Premium ERP are ideally suited for remote access and wide-area networks (WANs) by virtue of the product architecture. Communication across the remote connection is limited to data displayed on the window and user interface commands from the server. The local workstation handles the actual user interface and leaves the processing to the server.

Routing and Remote Access Service (RRAS)



NOTE

You should limit the initial number of records displayed in a lookup by setting the Lookup Limit for Initial Display field in Library Master User Maintenance.

Performance through RRAS is slower than the performance of a computer attached directly to the network because the transfer rate is limited by the Internet connection speed. The minimum workstation requirements are the same for a remote workstation as they are for a local workstation. For operating system requirements, see the Supported Platform Matrix on the Support page on the Sage Customer Portal at: <https://customers.sagenorthamerica.com>

The server must be configured with RRAS provided by Microsoft on the appropriate Windows Server DVD. For more information on installing and configuring RRAS on your server system, consult a Microsoft Windows Server engineer or consultant.

After RRAS is configured, remote users should be able to dial into the network and log on. Before attempting to start Sage 100 ERP, perform the following tasks:

- Verify that you can access Windows Explorer and see all appropriate network resources.
- Verify that firewalls between the remote workstation and the Sage 100 ERP server are configured to allow traffic between the server and workstation using the specified TCP/IP port.
- Verify that the IP addresses are unique.
- Verify that you can ping to the server on which Sage 100 ERP is installed.

If these tasks are successful, Sage 100 ERP will start. Run the workstation installation wizard from the server. The installation may take several minutes, depending on the speed of the network and the modem connecting the workstation to the server.

Sage 100 ERP does not require a logical drive connection; however, if you intend to use SAP Crystal Reports or other third-party software that accesses Sage 100 ERP data files, these programs will require a drive mapping. When accessing a system remotely, if possible, install the applications on the local hard drive rather than accessing them from the server. This minimizes the amount of data transferred across the phone line and significantly improves performance.

Wide Area Networks (WAN)



NOTE

Verify that routers and other network services do not re-map IP addresses for the server or workstation when packets are transferred through the WAN.

Sage 100 ERP runs on any TCP/IP-based WAN and has been tested using ISDN, Frame Relays, and T1 connections. The configuration and setup of Sage 100 ERP on a WAN are the same as those for remote access, and the same tests should be performed to make sure the remote workstation can access all network resources (including the ability to ping to the Sage 100 ERP server). Individual requirements vary from site to site, based on the amount of data being transferred and the number of users on the system. Sage cannot support the various hardware configurations possible in TCP/IP WANs. To set up and configure TCP/IP WANs using Windows servers (including routers, gateways, and DNS servers), consult with a Windows server WAN specialist or a Sage business partner qualified to support WAN configurations.

Performance Over RRAS/WAN

When running Sage 100 ERP over a WAN or RRAS, you will experience slower system performance, specifically with screen displays. Slower system performance is caused by actions that travel from the remote workstation through the phone lines or dedicated cabling to the server, which processes the request and sends the response back to the remote workstation. Clicking action controls (such as buttons) may require you to click the control more than once before the action begins. To make sure the command executes, hold the mouse button down until you see the button change to its depressed mode. When you release the mouse button, control returns to its normal mode. Additionally, do not click controls before the screen loads completely.



NOTE

Selecting the Low Speed Connection check box is recommended in environments with low bandwidth.

The Low Speed Connection check box on the User Maintenance Preferences tab will turn off the screen display while the panel is loading. Otherwise, if you click controls before they are loaded completely, you may receive some error conditions if certain controls are not loaded or are not properly initialized. Similar conditions may also be experienced when running through Windows with Terminal Services, especially if you are dialing in to the Windows server.

Virtual Private Network (VPN)

If you are implementing VPN, you should consider that software-based solutions, such as VPN bundled with Windows Server on low speed connections, may slow performance, because of the security overhead.

Pinging to a Server or Workstation

If you are having problems pinging to a server or workstation, for each LAN workstation, use the built-in TELNET utility to ping the specific socket and port the Application Server is listening on. For remote workstations, you can use ping and TELNET if the server's router or firewall does not block Internet Control Message Protocol (ICMP) commands. If the router or firewall does block ICMP commands, use a port scanning utility instead.

Configuring the Workstation for the ODBC Driver Service

When configuring a Sage 100 Advanced ERP workstation to use the client/server ODBC driver, if a failure occurs when testing the connection from the workstation to the client/server ODBC service, use the built-in TELNET utility or a port scanning utility to verify the workstation can connect to the server on port 20222.

Hanging Processes

On occasion, a process may become orphaned from the workstation if the connection between the workstation and server fails. This is more prevalent in low bandwidth remote WAN connections where reliability and stability cannot be guaranteed.

Detecting Existing Processes

When the Sage 100 ERP Desktop is started, Sage 100 ERP checks to see whether any processes exist for that computer. If there are orphaned processes or if a Sage 100 ERP Desktop is already in use by this workstation, a message appears informing you that another Desktop has already been started for the computer.

Users in a LAN environment should not encounter these errors unless an error previously occurred, causing the workstation to lose its connection with the server, or if another Sage 100 ERP Desktop is in use for this workstation. There is also the possibility that another computer on the network has the same name as the machine attempting to connect to the server.



WARNING
Use the Windows Task Manager to end processes only when the tasks for this machine are known to be "dead." Killing "live" tasks in this manner may cause data corruption or loss.

Ending Processes

If the message dialog box stating that a Sage 100 ERP Desktop is already in use appears when there is no Desktop in use, use Windows Task Manager to end any orphaned processes.

Use this option only when you are certain that the tasks left on the server are, in fact, orphaned and not processing any information. Tasks that are interrupted in the middle of an update can continue to update, even though the connection has been severed. If an update process has started and the connection is lost, let the task complete and end rather than "kill" the task using the option mentioned on page 120. Unless a remote connection is extremely stable (such as a dedicated ISDN line), do not run update or register programs from a remote workstation. This reduces the chances of data corruption and allows the files to be updated and closed correctly.

To end an orphaned process

- 1 Press CTRL+ALT+DELETE to access the Windows Task Manager.
- 2 In the Windows Task Manager window, click the Processes tab.
- 3 Select each instance of Pvxwin32.exe, and click End Process.

Increasing Default Limits Set by Windows Server

Windows servers may limit the number of Sage 100 ERP processes that can run simultaneously, especially when the Application Server has been configured to run as a service. This can create an issue when a significant number of users are using Sage 100 ERP at the same time. Blank, white screens may appear when any user tries to start a new task. If a user closes down an existing screen and then tries to open the original task, it then opens successfully. For more information on this issue, use the Knowledgebase on the Sage Customer Portal at <https://customers.sagenorthamerica.com> to search for the following text: Cannot create a new session with a large number of users.

Appendix A

Sage 100 ERP Security Permissions

The information in this appendix provides the minimum Share and NT File System (NTFS) permission settings for servers and workstations to work properly with Sage 100 ERP. This appendix also provides procedures for setting permissions.

Setting NTFS and Share Permissions

There are two methods mentioned in this appendix for applying permission settings in an operating system: the Share (share point) method and the NTFS method. The following procedures describe how to set permissions using each method.

To set permissions using the Share method

- 1 In Windows Explorer, right-click the share point folder and select Properties. The Properties window appears.
- 2 Click the Sharing tab, and then select Share this folder.
- 3 Click Permissions. The Permissions window appears.
- 4 In the Group or user names section, select the group or user.
- 5 In the Permissions section, select the applicable permission (Full Control, Change, or Read).

To set permissions using the NTFS method

- 1 In Windows Explorer, right-click the folder and select Properties. The Properties window appears.
- 2 Click the Security tab.
- 3 In the Group or user names section, select the group or user.
- 4 In the Permissions section, select the applicable permission (Full Control, Change, or Read).

Sage 100 ERP Server Minimum Permission Settings

The following information provides minimum permission settings for the local user account running on the Sage 100 ERP server and for any network user account accessing the server from another computer.

Permissions for the Local User Running the Sage 100 ERP Server

The following table provides the minimum permission settings for the local user account running the Sage 100 ERP application either as a service or an application. The user account must be a member of the Administrators group (or equivalent). Do not use the system account to run the Sage 100 ERP server application.

Set the share point and NTFS permissions in the table below for the local user account running on the server to perform the functions and tasks indicated.

Task	Minimum Share Permission	Minimum NTFS Permission	Folder
Application Utilities	Change	Full Control	..\MAS90
Business Insights Explorer	Change	Full Control	..\MAS90
Business Insights Reporter	Change	Full Control	..\MAS90
Change Data Location	Change	Full Control (for the destination location)	..\MAS90
Custom Office	Change	Full Control	..\MAS90

Task	Minimum Share Permission	Minimum NTFS Permission	Folder
Office Template Manager	Change	Full Control	..\MAS90
Modifying Forms and Reports from within Modules	Change	Full Control	..\MAS90
Library Master Utilities	Change (for the Sage 100 ERP share point)	Full Control	..\MAS90
Printing Tasks	Change	Full Control	..\MAS90
Report Manager	Change	Full Control	..\MAS90
Updates for Pre-Version 4.0 Modules	Change	Full Control	..\MAS90
Updates for Version 4.0 Modules	Change	Full Control	..\MAS90

When updating user-defined fields (UDFs), if alternate directories exist, the account running on the Sage 100 ERP server must have Change permissions set to all share point folders where company data exists to be able to update records.

Permissions for Other Users accessing the Sage 100 ERP Server

The following information provides the minimum permission settings for user accounts performing Sage 100 ERP tasks on the Sage 100 ERP server from another computer.

Task	Minimum Share Setting	Minimum NTFS Setting	File or Folder
ACH Electronic Payments Folder	Change	Write	..\MASxxx\APxxx where xxx represents the company code (Default folder can be changed in Accounts Payable Options)
Application Utilities	No Permissions Required	No Permissions Required	
Business Insights Explorer	Change	Write	..\MAS90\BIExplorer\views
Business Insights Reporter	Change	Write	<p>Files:</p> <p>..\MAS90\Providex.DDF ..\MAS90\PVXVIEW ..\MAS90\PVXVIEW.GPD ..\MAS90\PVXVIEW.ITM ..\MAS90\PVXVIEW.SRC ..\MAS90\PVXVIEW.VUE</p> <p>Folders:</p> <p>..\MAS90\HOME\LIB ..\MAS90\MAS_SYSTEM ..\MAS90\Reports\BIReporter</p>

Task	Minimum Share Setting	Minimum NTFS Setting	File or Folder
Change Data Location	No Permissions Required	No Permissions Required	
Custom Office	No Permissions Required	No Permissions Required	
Office Template Manager	Change	No Permissions Required	..\MAS90\OfficeTemplates
Modifying Forms and Reports from within Modules	Change	Write	..\MAS90\MAS_XXX\Reports ..\MAS90\Reports\###-### ..\MAS90\###-XXX ..\MAS90\MAS_System\Reports (where XXX is the company code)
Federal and State eFiling and Reporting	Change	Write	..\MAS90\MAS_XXX \APXXX\eFilingReporting ..\MAS90\MAS_XXX \PRXXX\eFilingReporting (where XXX is the company code)
Library Master Utilities	No Permissions Required	No Permissions Required	
Paperless Office PDF Folder	Change	Write	Defined in Paperless Office maintenance tasks



NOTE

For printing tasks, a Read, Change, or Full permission is required to print to local and network printers. If no share permission is defined, printing is restricted to deferred reports. Access to the Deferred Printing task is based on security settings in Role Maintenance.

Task	Minimum Share Setting	Minimum NTFS Setting	File or Folder
Payroll Direct Deposit (ACH) File Folder	Change	Write	..\MASxxx\PRxxx where xxx represents the company code (Default folder can be changed in Payroll Options)
Printing Tasks	None/ Read/ Change/ Full	No Permissions Required	
Report Manager (for modifying forms)	Change	Write	..\MAS90\MAS_XXX\Reports ..\MAS90\Reports\###-### ..\MAS90\###-XXX ..\MAS90\MAS_System\Reports
Updates for Pre-Version 4.0 Modules	No Permissions Required	No Permissions Required	
Updates for Version 4.0 Modules	No Permissions Required	No Permissions Required	

Sage 100 ERP Workstation Permission Settings

The following information provides minimum permission settings that must be set for Sage 100 ERP workstations.

Installation Security for Workstations

Administrator rights must be set at the local workstation to install the workstation software and to run the Migrate Level 3 Data wizard and the Parallel Migration Wizard.

Report Security for Sage 100 Advanced ERP Workstations

For Sage 100 Advanced ERP, reports are cached in the following client workstation hidden folder:

- On workstations with Windows 8 or Windows 7 installed:
C:\ProgramData\Sage Software\Cache\MAS 200\Reports
- On workstations with Windows XP installed:
C:\Documents and Settings\All Users\Application
Data\Sage\Cache\MAS 200

The permission setting for this folder is set by the operating system, and should not be changed.

NTFS Permissions for Sage 100 Advanced and Premium ERP Workstations

The following NTFS permission settings must be set at the Sage 100 Advanced and Premium ERP workstations.

Minimum NTFS Setting	Folder
Modify	..\Mas90\Launcher
Write	..\Mas90\Home
Write	..\Mas90\Soa

Appendix B

TCP/IP Protocol

 **WARNING**
Do not make changes to the TCP/IP

configuration without consulting your system administrator.

Sage 100 ERP uses the TCP/IP protocol for all communications between the workstation and server. TCP/IP must be properly configured on both the Windows server and all workstations.

Although this section discusses configuration settings and options available in configuring a TCP/IP network, it is not a guide for installing TCP/IP on your server or workstation. Contact your Windows systems consultant for specific information regarding the installation and configuration of TCP/IP on your network.

Basic Configuration

There are no specific requirements for your Sage 100 ERP system with regard to the configuration of TCP/IP. To determine if a workstation is communicating with a server or vice versa, ping the server or workstation.

 **WARNING**

If an Internet connection is used in your Sage100 ERP infrastructure, make sure adequate precautions are taken to secure the data traveling through those connections.

To ping a server or workstation

- 1 Select Windows Start menu > All Programs > Accessories > Command Prompt.
- 2 In the Command Prompt window, type **PING MACHINE_NAME**, where MACHINE_NAME is the name of the server or workstation with which you are attempting to communicate.
- 3 If you are successful in communicating with another machine, a response similar to the output below will appear.

```
C:\WINDOWS>PING ERPSERVER
Pinging ERPSERVER [128.0.153.253] with 32 bytes of data:
Reply from 128.0.153.253: bytes=32 time=1ms TTL=32
C:\WINDOWS>
```

If you do not get a response and receive messages such as "unknown host MACHINE_NAME" or "timed_out," then the computer with which you are attempting to communicate is not receiving or acknowledging information from the workstation. This indicates that either TCP/IP is not configured correctly on the server or workstation, or the server is unreachable.

If the workstation cannot find a server by its name, it is likely that a name resolution mechanism is not in place. If this is the case, go to the server to find its IP address or contact your system administrator. You will receive a Bad IP address message dialog box if your name resolution is not working.

If you receive an error message when running the Ping program, it is possible that the workstation itself is not configured properly for TCP/IP. Contact your system administrator or a Windows system consultant for assistance in configuring TCP/IP.

Testing the Configuration for Sage 100 Advanced and Premium ERP

After installing Sage 100 Advanced or Premium ERP, test the TCP/IP configuration.

To test the configuration



NOTE

If you encounter problems pinging to the server or workstation, see *Pinging to a Server or Workstation* on page 119.

- 1 At the server, use the built-in NETSTAT utility or equivalent software to verify that the Application Server is running on its configured port. The default port is 10000.
- 2 From each workstation, ping the Application Server on its configured port. The TCP/IP built-in ping.exe utility does not provide a way for pinging a specific port. The network administrator should use port scanning software or equivalent to ping the specific port the Application Server is listening on.

Running in a Terminal Services or Citrix Environment



This chapter applies to:
Sage 100 Advanced ERP
Sage 100 Premium ERP

The Sage 100 ERP server supports running through a Windows Server with Terminal Services enabled.

The Sage 100 ERP server application should be installed on a server within the LAN that is not running Terminal Services/Citrix. Remote users connect up to a Windows server running Terminal Services. From there, they run the workstation component and connect to the Sage 100 ERP server. This limits the amount of processing and resources required by the Terminal Server computer. Separating out the workstation and server components allows users coming through Terminal Services to take advantage of the client-server architecture of Sage 100 ERP.

Installing the Sage 100 ERP Server

Install Sage 100 ERP as you would any other installation. This server should not have Terminal Services running on it. Because the Sage 100 ERP server is doing all the processing for each of the clients attaching to the server, having the additional burden of running Terminal Services will significantly slow down the server. The Sage 100 ERP Server can be a Windows server that meets the minimum system requirements for Sage 100 ERP.

Users can connect to the Sage 100 ERP server from anywhere on the network; they do not have to come in through the Terminal Server. This flexibility allows some users who are running through a corporate intranet to connect directly to Sage 100 ERP while remote users can run Sage 100 ERP through the Terminal Server.

Installing on the Workstation

From a Terminal Services/Citrix session, run the workstation installation wizard logged on as an administrator. Do not run the workstation installation wizard directly at the Terminal Services/Citrix Server.

Run the Sage 100 ERP installation program from the Terminal Services Server. You can also run Workstation Setup from the Sage 100 ERP server's share point by browsing to the MAS90\Wksetup folder and double-clicking the WkSetup.exe file.

Because multiple users will use the Sage 100 ERP client, a multi-user activation key is required. To obtain this key, you must first activate the server before running Workstation Setup. This causes a multi-user activation key to be copied to the Sage 100 ERP client folder on the Terminal Services Server.

To install the workstation, see Workstation Setup on page 21 for Sage 100 Advanced ERP or page 34 for Sage 100 Premium ERP.

Terminal Services Considerations

Sage 100 ERP will retrieve the workstation name of the client that is coming into the Terminal Server environment and will use that workstation's name for tracking sessions. This allows for a single installation of the workstation that all users can access; however, verify that all user's machines that are coming in through the Terminal Server have unique workstation names.

Because multiple users will use the Sage 100 ERP client, a multi-user activation key is required. To obtain this key, you must first activate the server. After the server is activated, running the workstation installation wizard through a Terminal Server desktop session (not directly at the server) will copy the ACTIVATE.PVX file in the Sage 100 ERP server's MAS90\Home\Lib\Keys folder to the MAS90\Home\Lib\Keys folder of the Sage 100 ERP client on the Terminal Server. If a message appears indicating that the copy was not successful, you must manually copy the file.

To use Sage 100 ERP under Terminal Services, users must be granted permissions to the MAS90 folder where the client-side application software is installed, if it is installed on an NT File System (NTFS). For information on NTFS permissions requirements, see NTFS Permissions for Sage 100 Advanced and Premium ERP Workstations on page 129.

For more information on Terminal Server/Citrix considerations, refer to the Supported Platform Matrix on the Support page on the Sage Customer Portal at: <https://customers.sagenorthamerica.com>

Appendix D

Sage Configured Installation for SQL Server

 This chapter applies to:
Sage 100 Premium ERP

The Microsoft SQL Server Runtime Edition 2012 installation program purchased through Sage has a Sage Configured Option for installing SQL Server. If you select this option, parameter settings are defined as shown in the following table.

Parameter	Setting	Description
ACTION	INSTALL	Specifies a setup work flow, such as Install, Uninstall, or Upgrade. This is a required parameter.
FEATURES	SQL, IS, TOOLS	Specifies which features to install, uninstall, or upgrade. The list of top-level features includes SQL, AS, RS, IS, and Tools. The SQL feature installs the database engine, replication, and full-text. The IS feature installs Integration Services, which includes the SQL Server Import and Export Wizard, Log Providers and Logging, XML Source, SSIS Run-Time, Basic Data Profiling Tools, and SSIS Package Designer and Service. The Tools feature installs Management Tools, Books Online, Business Intelligence Development Studio, and other shared components.

Parameter	Setting	Description
INSTANCENAME	MSSQLSERVER	Specifies a default or named instance. MSSQLSERVER is the default instance for non-Express editions, and SQL Express is the default for Express editions. This parameter is required when installing the SQL Server Database Engine (SQL), Analysis Services (AS), or Reporting Services (RS).
SECURITYMODE	SQL	SQL is used for mixed-mode authentication.
SQLSVCACCOUNT	SYSTEM	Specifies the account for the SQL Server service: domain\user or system account
ISSVCAccount	SYSTEM	Can be either domain user name or a system account.
SQLSYSADMINACCOUNTS	ADMINISTRATOR	Specifies which Windows account(s) to provision as SQL Server system administrators.
AGTSVCACCOUNT	SYSTEM	Can be either domain user name or a system account.

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