Sage 100 Contractor 2016
(formerly Sage Master Builder)

Database and Company Administration Guide

Version 20.3

Contents

Database Administration for Sage 100 Contractor

The Database Administration tool is intended for system and company administrators. You use it to set up and maintain your company databases and to manage communications with your Microsoft SQL Server instance.

If you have used earlier versions of Sage 100 Contractor, several of these tasks will be familiar to you. For example, Database Administration includes utilities for creating and deleting a company, backing up and restoring company files, and archiving company data that you used in previous Sage 100 Contractor versions.

IMPORTANT: Use Database Administration, rather than SQL Management Studio®, to perform the database administration tasks listed below, even if you are an experienced SQL Server user. Besides handling all the database tasks that you are likely to perform in a typical Sage 100 Contractor system, Database Administration was designed to optimize your data for Sage 100 Contractor, for example, by keeping related data in expected locations and creating backups automatically before performing certain critical processes. In the rare event that you need to use SQL Management Studio® to perform a task that is not provided in Database Administration, you should contact Customer Support for assistance.

Database Administration includes the following database and company management utilities:

- **Create Company Based on Existing** and **Create Company** create new Microsoft SQL Server databases.
- **Rename Company** and **Delete Company** are convenient utilities when working with existing companies.
- **Deploy Sample Company** helps you install and refresh the sample data that comes with Sage 100 Contractor.
- **Tune Up Company Databases** performs various maintenance tasks to keep your database functioning efficiently.
- **Back Up Company Databases** enables you to back up your data "on demand," whenever needed.
- **Restore Company from Backup** restores a selected backed-up copy of your database.
- **Upgrade Company Databases** prepares your SQL company data so that it is compatible with the most recent version of Sage 100 Contractor.
- **Migrate Company Data** and **Migrate Custom Reports** transfers your version 19.7 company data and custom reports to a new location for Microsoft SQL Server. Migrated files are located in shared folders under C:\Sage100Con\Company\[Company Name], organized using a folder structure similar to earlier versions.
- **Schedule Nightly Maintenance** utilities enable you to schedule backup and maintenance operations for times when other users are not logged into the system. You can also select the number of consecutive backups to keep.
- **Manage Company Admins/SQL Logins** utilities enable you to set up or delete logins to the SQL Server database, and to designate a user as a company administrator for a specified Sage 100 Contractor company.

- **Advanced Company Settings** lets you specify how long to keep history about database changes for each company, including details about changed records, such as the date and user ID of the employee made the change. Details older than the retention period you specify are cleared during nightly maintenance. (This history is maintained in separate audit tables, which you can query using SQL Server Management Studio.)

- The **Toolbox** provides a variety of troubleshooting tools to help you track changes in your database, and to diagnose and fix certain types of problems.

- **Advanced SQL Server Settings** includes convenient, sophisticated access and memory management controls for your SQL database.

The Database and Company Administration Guide includes detailed information about these utilities and how to use them.

How to read this document

This document uses the following conventions:

- The names of screens, windows, fields, and other features displayed by the software are shown in **bold type**.

- Information you enter into the software is in bold type, as in the following example:
  Enter **Miscellaneous** in the **Amount Type** box.

- Names of keys are shown in capitals; for example, ENTER, TAB. A plus sign (+) between two key names indicates that you should press both keys at the same time; for example, SHIFT + TAB.

- The names of buttons you can click with your mouse are enclosed in bold type; for example, [**OK**] and [**Post**].

> **TIP:** This symbol draws your attention to helpful information to make it easier for you to use Sage 100 Contractor.

> **NOTE:** This symbol draws your attention to information of particular interest, such as information not included in steps.

> **CAUTION:** This symbol draws your attention to information that is important because it can help you avoid a costly or time-consuming error.

> **IMPORTANT:** This symbol draws your attention to information that is of critical importance.

Sage 100 Contractor data folders

When you are working locally on the server computer, the Sage 100 Contractor folders you see are presented differently than when you connect to the server from a workstation. When discussing the location of Sage 100 Contractor files and folders with other users, administrators should keep in mind that, although you are viewing the same underlying data, users connecting to the database through Sage 100 Contractor have a different view of the data than server administrators.

When you are using Database Administration directly on the server computer, you have access to folders on the server as you would on any local machine. You can navigate using the local folder structure described under "Local folder structure (database administrators)" in the table below.

Folder contents	Local folder structure (database administrators)
Main shared folder	[Local drive]:\Sage100Con
Shared dictionary, and other shared files (not visible to clients)	[Local drive]:\Sage100Con\Common
Shared custom reports	[Local drive]:\Sage100Con\Common\Custom Reports
Readme and installation file for installing the software on workstations	[Local drive]:\Sage100Con\Common\Installation
Shared report forms	[Local drive]:\Sage100Con\Common\Report Forms
Files and folders for the user's private reports, forms, user maps, dictionary, printer settings, and so on	[Local drive]:\Sage100Con\Common\User Data\[Windows user name]
Company database and subfolders , including Aatrix Forms, Attachments, Direct Deposit, Images, and Reports	[Local drive]:\Sage100Con\Company\[Company Name]
Migration log, audit history log (not visible to clients)	[Local drive]:\Sage100Con\Company\[Company Name]\Files
Payroll a vendor payment folders	[Local drive]:\Sage100Con\Company\[Company Name]\Files\Direct Deposit
Saved reports	[Local drive]:\Sage100Con\Company\[Company Name]\Files\Reports
SQL Express download file (not visible to clients)	[Local drive]:\Sage100Con\Downloads
Sage 100 Contractor restricted applications XML file (not visible to clients)	[Local drive]:\Sage100Con\Settings

Because access to Sage 100 Contractor user is limited to certain shared folders on the server, the underlying folder structure on the server machine is not exposed. Navigation for these users follows different apparent paths. For example, the main shared folder on the server is called Sage100Contractor, whereas the local folder is named Sage100Con. Furthermore, the paths to some folders, such as the Custom Reports folder, the Installation folder, and the company folders, are abbreviated, and do not display the nesting patterns that are visible on the local machine. Sage 100 Contractor users navigate to folders on the server according to the folder structure described under "Server folder structure (clients connecting to the server)," below.

Folder contents	Server folder structure (clients connecting to the server)
Main shared folder	[Server name]\Sage100Contractor
Shared dictionary, and other shared files (not visible to clients)	N/A
Shared custom reports	[Server name]\Sage100Contractor\Custom Reports
Readme and installation file for installing the software on workstations	[Server name]\Sage100Contractor\Installation
Shared report forms	[Server name]\Sage100Contractor\Report Forms
Files and folders for the user's private reports, forms, user maps, dictionary, printer settings, and so on	[Server name]\Common\User Data\[Windows user name]
Company database and subfolders , including Aatrix Forms, Attachments, Direct Deposit, Images, and Reports	[Server name]\Sage100Contractor\[Company Name]
Migration log, audit history log (not visible to clients)	N/A
Payroll a vendor payment folders	[Server name]\Sage100Contractor\[Company Name]\Direct Deposit
Saved reports	[Server name]\Sage100Contractor\[Company Name]\Reports
SQL Express download file (not visible to clients)	N/A
Sage 100 Contractor restricted applications XML file (not visible to clients)	N/A

About Connecting to SQL Server

When you launch Database Administration, the first window that appears is **Connect to SQL Server**.

In this window, you select the SQL Server instance where your databases are located. Depending on the authentication method SQL Server uses to verify credentials for this instance, you may also need to enter your SQL login and password.

After you enter the required information, and then click [**Connect**], you can use Database Administration to perform a variety of administrative and database maintenance tasks for all the companies for which you have access.

Selecting the SQL Server name

In most business situations, your data is probably located on a server computer on your local area network. In a network environment, the **SQL Server Name** list displays all the local and network drives to which you have access.

If you can see the shared network drive in the list, you have access to the databases located on that drive.

If you do not see the drive where the company is located, consider the following possibilities:

- Have you lost your network connection? If you have, you cannot access network drives or the companies on that drive.

- Has the server lost its network access or crashed? If so, you can access the server and the company after rebooting.

- Has the company been moved to a different computer and drive? If so, you need to map to the network drive in its new location.

Authenticating your user name and password

Select the type of authentication your SQL Server database uses to verify your credentials.

With Windows Authentication, you not need to enter a user name and password, providing you signed into Windows using the same credentials as those entered for you in the SQL Server database. Database Administration authenticates the user name and password you entered when signing into Windows.

With SQL Server Authentication, you must enter your SQL Server login and password.

Adding and Deleting Companies

The **Add / Delete Companies** utilities enable you to create SQL databases easily for each company for which you keep books, and to rename and delete existing company databases efficiently.

There is also a utility for deploying the Sample Company that comes with Sage 100 Contractor, and redeploying it whenever you need to refresh the sample data.

About adding companies

You should create a separate company database for each company that you manage.

The **Add / Delete Companies** utilities enable you to create SQL databases easily for each company for which you keep books.

> **NOTE:** Sage 100 Contractor handles all aspects of creating, setting up, and administering your company database in Microsoft SQL Server. You do not need to learn to use separate database management software to take advantage of the benefits of an up-to-date and secure database system.

There are two ways to create a new company. You can either:

- Create a blank new company "from scratch" using the Create Company utility.

  For more information, see "About creating a company containing no existing company information".

- Create a new company that uses some of the same data as an existing company (such as lists of clients, employees, accounts, cost codes, and external files, such as Takeoff grid files, that have no job references).

  You use the Create Company Based on Existing utility to create a company based on an existing one.

  For more information, see "About creating a company based on an existing company "

Each new company requires a minimum of 50 megabytes of hard disk space, and as you enter information for each company, it requires more space. The number of company folders you can retain on your hard disk is only limited by the amount of available hard disk space.

You can create a company database on any local or network drive. However, your network administrator must give you Write access to the selected drive first.

By storing each company's information in a separate folder, you can back up and restore company information.

> **IMPORTANT:** You cannot create a company with the following characters in the company name: :?/ \ |@ . # $ % ^ & ( )

About creating a company based on an existing company

Setting up new companies from scratch can be very time-consuming, so Sage 100 Contractor provides a convenient utility that creates a new company based on information in an existing company. If you have an

existing company with a similar structure that uses the features you want to use in a new company, the Create Company Based on Existing utility can save you a lot of time and effort.

When you use this method to create a new company:

- The Create Company Based on Existing utility populates the new company database with select information from the existing company. Transactions are not transferred to the new company.

- The new company's default posting period is set to the same posting period as the existing company. If necessary, you can change the default posting period for the new company using the **Change Period** feature in the Sage 100 Contractor **1-6 Period/Fiscal Year Management** window.

NOTE: Do not use this feature to create backup copies of your data. Sage 100 Contractor provides a separate, convenient method to back up company data on a regular basis. For more information, see "Backing Up a Company Database".

Before creating a company based on an existing company

Before creating a new company from an existing company, you should:

- Determine whether an existing company is a good match for your new company.

- Make sure that you have exclusive access to the existing company database. You can create a new company from an existing company only if you have exclusive access to the database.

- Make sure you have sufficient hard disk space to create the new company (at least 50 megabytes to start, with space to grow).

- Make sure your network administrator has given you Write access to the selected drive.

Information transferred to the new company

Information transferred to the new company includes:

Type	Includes, but not limited to
List data	Clients Accounts Employees Cost Codes Parts Vendors
External files with no job reference	Takeoff template files Takeoff grid files Bitmap images for clients, employees, and so on Attachments

If a field within a table contains transactional data, it is **not** copied.

Type	Includes, but not limited to
Transactional data directly related to jobs	Accounts receivable Field reports Inventory allocations Payroll records
Transactional data contained in a field within a table	Accounts payable—beginning balance and ending balance Employees—Qtr1 gross, Qtr2 gross, and so on Ledger accounts—beginning balance and ending balance

About creating a company containing no existing company information

When you create a brand new company, not based on existing company information, Sage 100 Contractor creates a new company database with table headings, but no other information.

After creating the new company, you need to enter the following information using windows in Sage 100 Contractor:

- Enter new company information on the **7-1 Company Information** window. You will find it helpful to have the following information on hand:
  - Complete company address
  - License number
  - Federal tax identification number
  - State tax identification number
  - Business Number
  - Canada Revenue Agency Program Accounts
  - Resale number
  - Telephone and fax numbers
  - Email address
  - Direct deposit information, which is the account number, routing number, and the account type.
- Use the **1-8 General Ledger Setup** window in Sage 100 Contractor to set up your accounting structure, fiscal year date, current period, sales tax setup, and inventory valuation method (if you have the Inventory Add-on Module).

Creating a company based on an existing company's information

Using the Create Company Based on Existing utility can save you a lot of time and effort when creating new companies.

Before you start

- Determine whether an existing company is a good match for your new company.
- Make sure that you have exclusive access to the existing company database. You can create a new company from an existing company only if you have exclusive access to the database.
- Make sure you have sufficient hard disk space to create the new company (at least 50 megabytes to start, with space to grow).
- Make sure your network administrator has given you Write access to the selected drive.

To create a new company based on an existing company's information

1. Click Add / Delete Companies > Create Company Based on Existing.
2. From the Select the source company list, select the name of the existing company you want to use as the basis for the new company.
3. In the Enter a name for the new company text box, type the name of the new company.
4. Use the options in the Maintenance section to specify:
   - The time to run nightly maintenance.
   - The number of backups to keep.
5. Click [**Create Company**].

   A status message in the lower left corner of the tab displays the progress of company creation.

After creating the new company

- Enter company information on the 7-1 Company Information window Sage 100 Contractor.
- Use the 1-8 General Ledger Setup window in Sage 100 Contractor to set up your accounting structure, fiscal year date, current period, sales tax setup, and inventory valuation method (if you have the Inventory Add-on Module).

Creating a New Company

When you create a brand new company, not based on existing company information, Sage 100 Contractor creates a new company database with table headings, but no other information.

NOTE: Setting up new blank companies is a time-consuming process. If you have an existing company that has the same structure and uses the same features as the one you want to create, consider using the Create Company Based on Existing utility, which can save you a lot of time and effort.

Before creating a new company

- When creating a new company, you must specify a company administrator who has been added as a user to your SQL Server database. Therefore, be sure you have created a SQL Server login for the user you want to designate as the administrator for this company.

To create a new company containing no existing company information

1. Click **Add / Delete Companies** > **Create Company**.

2. In the **Enter a name for the company** text box, type the name of the new company.

3. From the **Select a company administrator** list, select the user you want to designate as the administrator for this company.

4. Use the options in the Maintenance section to specify:

   - The time to run nightly maintenance.

   - The number of backups to keep.

5. Click [**Create Company**].

   A status message in the lower left corner of the tab displays the progress of company creation.

After creating a new company

- Enter new company information on the **7-1 Company Information** window Sage 100 Contractor.

- Use the **1-8 General Ledger Setup** window in Sage 100 Contractor to set up your accounting structure, fiscal year date, current period, sales tax setup, and inventory valuation method (if you have the Inventory Add-on Module).

About renaming companies

If your company, or one of the companies you manage, changes the name under which it does business, you probably want to change the name of the company in your Sage 100 Contractor program. Renaming a company using **Database Administration for Sage 100 Contractor** is a very easy, straightforward process.

On the **Rename Company** tab, you simply select the company you want to rename, enter the new name, and then click the [**Rename Company**] button.

The program creates a backup copy of the existing company before renaming it.

When renaming a company, you can also change the nightly maintenance schedule or the number of backups to keep for the company.

Renaming a company

If your company, or one of the companies you manage, changes the name under which it does business, you probably want to change the name of the company in your Sage 100 Contractor program. Renaming a company using **Database Administration for Sage 100 Contractor** is a very easy, straightforward process.

To rename a Sage 100 Contractor company

1. Click **Add / Delete Companies** > **Rename Company**.

2. From the **Select the company to rename** list, select the existing company name.

3. In the **Enter a new name for the company** text box, type the new name for the company.

4. (Optional) Use the options in the Maintenance section to specify:

   - The time to run nightly maintenance.

   - The number of backups to keep.

5. Click [**Rename Company**].

   A message appears asking whether you are sure you want to rename the selected company.

6. Click [**Yes**] to rename the company.

   The program creates a backup copy of the existing company before renaming it.

   A status message appears when renaming is complete.

Deleting a Company

You use the **Delete Company** tab to delete a selected company.

To delete a company database

1. Click **Add / Delete Companies** > **Delete Company**.

2. From the **Select the company to delete** list, select the name of the company you want to delete.

3. Click [**Delete Company**].

   A warning message asks whether you are sure you want to delete the selected company.

4. If you are sure you want to delete the company, click [**Yes**].

Deploying the Sample Company

About the Sample Company

Sage 100 Contractor comes with a set of sample data, "Sample Company," installed together with the Sage 100 Contractor software.

The Sample Company includes:

- Sample accounts, sample employees, sample takeoffs, and much more.

- Starter lists for many values you will need to set up cost codes, cost types, tasks, client status, client type, employee positions, paygroups, and so on.

- Samples of many Sage 100 Contractor forms that are already filled in, making it easy to understand many concepts.

- Live data to investigate the content of Sage 100 Contractor reports.

NOTE: We highly recommend that you deploy the Sample Company data. While taking little space on your hard disk, Sample Company lets you and other users practice using Sage 100 Contractor without any risk to your own company data. Sage 100 Contractor master trainers use Sample Company extensively during Sage 100 Contractor training classes, and in many online and recorded classes.

About deploying Sample Company

After installation, or any time you want to restore Sample Company to its original state after users have worked with it, you use the **Deploy Sample Company** tab to make Sample Company available for use in Sage 100 Contractor.

When you deploy Sample Company, you are added as a company administrator to the list of Sample Company users in Sage 100 Contractor, along with a set of sample users. For more information, see "Sample user names and passwords".

When you redeploy Sample Company, any users that have been added to Sample Company in Sage 100 Contractor are retained.

For steps on deploying Sample Company, see "Deploying the Sample Company".

Sample user names and passwords

Users can log in to the sample company using one of the user names that comes with the sample data, or they can use their usual Sage 100 Contractor credentials, providing the company administrator adds them as users in the Sample Company.

When you deploy sample data for the current version, the "sample users" are:

- For the U.S. Edition:
  - Bryan - Sample User (Owner/Comptroller)
  - Debra - Sample User (Owner/Comptroller)
  - Ginger - Sample User (Payables)
  - Jenny - Sample User (GL/Receivables/Payables)
  - Josh - Sample User (Estimator/PM)
  - Lynn - Sample User (Owner/Comptroller)
  - Scott - Sample User (Estimator/PM)

- For the Canadian Edition:

  - Angela - Sample User

  - Becky - Sample User

  - Brandi - Sample User

  - Brandy - Sample User

  - Denise - Sample User

  - Gerald - Sample User

  - Heidi - Sample User

  - Ken - Sample User

  - Kyle - Sample User

  - Melinda - Sample User

  - Rachel - Sample User

  - Scott - Sample User

  - Vincent - Sample User

If you migrated the Sample Company from version 19.7, the list of users will be the same as it was in that version. If the user names were not modified in the earlier version, the users names are the same as those listed here, but without "Sample User" at the end. (For example, rather than "Bryan – Sample User," the user is simply "Bryan.")

NOTE: These sample users all use the password password.

Deploying the Sample Company

Sage 100 Contractor comes with a set of sample data, "Sample Company," installed together with the Sage 100 Contractor software.

You can deploy the Sample Company after installation, or any time you want to restore Sample Company to its original state after users have worked with it.

When you deploy Sample Company, you are added as a company administrator to the list of Sample Company users, which includes a set of sample users, in Sage 100 Contractor.

When you redeploy Sample Company, any users that have been added to Sample Company in Sage 100 Contractor are retained.

To deploy the Sage 100 Contractor Sample Company

1. Click **Add / Delete Companies** > **Deploy Sample Company**.

2. Click [**Deploy Sample**].

After deploying Sample Company

- Use the tabs under the **Company Admins / SQL Logins** menu to add or change company administrators for Sample Company.

- Open the **Sage 100 Contractor** program as a copmany administrator, and then use the **7-2-2 User List** window to set up additional users.

- Provide user names and passwords to users in your own company who want to work with the sample data. For information about the names and roles of the sample users, see "About the Sample Company".

> **NOTE:** The password for the sample users that come with Sample Company is password.

Tuning Up, Backing Up, and Restoring Company Databases

About tuning up your company database

Database Administration automatically performs maintenance tasks to keep your database functioning efficiently. This maintenance takes place according to schedules you create and assign to companies using the tabs under Schedule Nightly Maintenance. For more information about nightly maintenance schedules, see "About scheduling nightly maintenance".

You can also use the Tune Up Company Databases utility to run maintenance tasks at other times, whenever you need to. For more information about running maintenance "on demand," see "Tuning up a company database".

NOTE: The Tune Up Company Databases tab shows the last time maintenance was performed for each Sage 100 Contractor company in your SQL Server instance.

Tuning up a company database

Tuning up your company database optimizes your company data to help it run efficiently and without errors in Sage 100 Contractor.

Your database is tuned up automatically during nightly maintenance according to the schedule you specify on the Create Maintenance Schedules or the Modify Maintenance Schedules tab. However, you can also tune up your database on demand from the Tune Up Company Databases tab.

To tune up a company database on demand

1. Click Tune Up / Back Up / Restore > Tune Up Company Databases.

2. On the tab to the right, select the company or companies you want to tune up.

3. Click [**Tune Up Databases**].

About backing up your company data

Routinely backing up your accounting data is essential to ensure its safety and integrity.

There are many causes for data corruption, ranging from faulty hardware to power fluctuations. While you can replace program files or computer hardware, you cannot easily replace accounting data without a backup copy.

Database Administration for Sage 100 Contractor provides a utility for backing up your company data automatically to a network location or a local folder during nightly maintenance. Creating a series of backup copies over time enables you to restore your data from a point prior to the errors, without needing to re-enter all your accounting data manually.

IMPORTANT: You should store at least one copy of your backed-up data off premises or in a fireproof safe. If a burglary or fire occurs, a copy of your data is safe from harm. We strongly recommend that you routinely store backed-up copies of your data in a safe environment that is separate from your server, preferably off site.

Backing up during nightly maintenance

You use the tabs under **Schedule Nightly Maintenance** to schedule the time that maintenance and backup occur, as well as the number of backup copies to keep. For more information about scheduling, see "About scheduling nightly maintenance".

Database Administration saves backup copies created during nightly maintenance to the C:\Sage100Con\Backup\Nightly folder.

IMPORTANT: You need to ensure that both the server that hosts your company database and the computer where the backup copies are saved are always turned on at the scheduled time.

The automated backup procedure creates a separate zipped file for each company by date. The zipped file includes the following data:

- All the company files.
- Reports.
- An audit log. Before backing up your company, the program audits your data to ensure that it contains no errors.

Backing up "on demand"

You can also create backup copies manually, "on demand," at any time using the **Back Up Companies** tab. For steps on backing up your company manually, see "Backing Up a Company Database".

The default location for backup copies you create manually is C:\Sage100Con\Backup\On Demand. Database Administration also saves backup copies to this folder whenever you archive company data or delete a company.

Backing Up a Company Database

Database Administration for Sage 100 Contractor provides a utility for backing up your company data to a network location or a local folder automatically, according to a nightly maintenance schedule.

You can also create backup copies manually, "on demand," at any time using the **Back Up Companies** tab.

IMPORTANT: Always use Database Administration to back up your data. Database Administration backs up numerous files (including external files, such as attachments) that are not part of the SQL database, and it performs additional steps to ensure that you can successfully restore your data from a backup copy. Do not attempt to back up Sage 100 Contractor data using Microsoft SQL Server Management Studio or other third-party software, or you will be unable to restore the company.

Before backing up

✳ **IMPORTANT:** Ensure that both the server that hosts your company database and the computer where the backups are to be saved will always be turned on at the scheduled time.

To back up a company "on demand"

1. Click **Tune Up / Back Up / Restore** > **Back Up Companies.**

2. In the grid on the tab, select the check mark beside each company you want to back up at this time.

3. If you want to store the backup file in a different location than the default folder (C:\Sage100Con\Backup\On Demand), browse to and then select the backup folder you want to use.

   ❯ **TIP:** If the folder does not yet exist, you can make a new folder.

4. Click [**Create Backup**].

After backing up

Consider copying your backed-up data to additional media for off-site storage or to another network location, in case of fire or a burglary at the location where you keep the computer that runs Sage 100 Contractor. For more information, see "Backing up your data to a CD or DVD".

Backing up your data to a CD or DVD

This topic suggests a way to copy backed-up data to a CD or DVD for offsite storage.

Sage 100 Contractor automatically backs up your data to a server location and according to the maintenance schedule specified for your company. You can also back up your data at any time using the backup function in Sage 100 Contractor.

To copy your data to a CD or DVD

1. On your server machine, place the CD or DVD media in the CD or DVD drive.

2. On your Windows desktop, right-click [**Start**] **> Explore**.

3. In Windows Explorer:

   a. Locate and then right-click the C:\Sage100Con\Backup\On Demand folder.

   b. In the On Demand folder, right-click the backup that you want to copy.

   c. From the menu, select **Copy**.

4. Locate and then click the CD or DVD drive.

5. In the right-pane, right-click and then select [**Paste**].

   Depending on your hardware and software, the folder is copied to the CD or DVD media.

For further information or support, contact your CD or DVD manufacturer.

About restoring a company from a backup copy

Database Administration makes restoring your company data following a system failure or the purchase of new hardware a very straightforward process, assuming you have kept backups up to date in an accessible location.

On the **Restore Company from Backup** tab, you select the backup file you want to restore, select maintenance and backup options for the restored company, and then click the [**Restore Company**] button.

NOTE: If you installed a new version of Sage 100 Contractor since you backed up your company, you can choose to upgrade the company database automatically during the restoration process.

Restoring a company using a different name

There may be occasions when you want to restore a company from a backup copy without overwriting the company you are using in your production environment. For example, you might want to work with a temporary copy of the data for research purposes, without disrupting work in your current company.

Database Administration enables you to create a copy of your backed-up data by restoring the company using a different name, leaving the current company intact. Before you click [**Restore Company**], type the name you want to use for the copied company in the **Restore as** box.

Restoring a company database from a backup copy

If your computer is damaged or your data becomes corrupted, you use the **Restore Company from Backup** tab to restore your company from a backup file.

Before restoring a company

- Determine the date when valid data you want to restore was most recently backed up.
- Identify the name and location of the backup file for that date for the company.

    The default location for backup files is: C:\Sage100Con\Backup.
- Make sure no other users are logged into the company database.

To restore a company from a backup copy

1. Click **Tune Up / Back Up / Restore** > **Restore Company from Backup.**

2. In the **Enter the backup file you want to restore** box, browse to and then select the backup file from which you want to restore your company database.

3. If you want to restore the data using a different name for the company, leaving the existing company intact, in the **Restore as** box, type the name you want to use for the copied company.

4. If you have installed a new version of Sage 100 Contractor since you backed up your company, select **Upgrade the company database to the latest version after restoration**.

5. Click [**Restore Company**].

Upgrading Databases

About upgrading company databases

Upgrade Company Databases prepares your SQL company data so that it is compatible with the most recent version of Sage 100 Contractor.

You can update the databases for multiple companies at once, or you can update them one at a time, as needed.

> **NOTE:** Do not use this utility to upgrade your data from version 19.7. You use **Migrate Company Data** and **Migrate Custom Reports** to migrate your data to a Microsoft SQL Server database from version 19.7.

Upgrading a company database from an earlier version

After installing a new version of Sage 100 Contractor, you must upgrade existing company databases so they are compatible with the new version.

> **IMPORTANT:** Do not use this utility to upgrade your data from version 19.7! Use the Migration utility instead. For more information, see "About migrating your data from version 19.7"

Before upgrading a company database

- Install the latest version of Sage 100 Contractor.
- Make sure no other users are logged into any of the company databases you are upgrading.

To upgrade a company from an earlier version

1. Click **Upgrade Company Databases**.
2. In the grid on the tab, select the check box beside each company you want to upgrade to the current version of Sage 100 Contractor.

   You can upgrade the databases for several companies at once, or you can upgrade them one at a time, as needed.
3. Click [**Upgrade Database**].

Archiving Company Data

What is a company archive?

Over the course of a year, the accounting and payroll databases grow as you enter records. In a manual accounting system, you might move previous years' records to storage boxes or a storage facility. Similarly, you can move Sage 100 Contractor records to an archive file when you no longer need the data for a fiscal year.

When you archive company data, Sage 100 Contractor:

- Removes the accounting activity from the oldest fiscal year (12 periods) in your current company, and places it in an archive company.

- In your current company books, adjusts the beginning balances for asset, liability and equity accounts and sub-accounts, as well as jobs, vendors, service clients, and equipment to match the archive year's corresponding ending balances.

- Rolls income and expense balances for the archive year roll into the beginning balance for the Retained Earnings account in the current company.

At year end, if I don't have enough hard disk drive space to create an archive company, what can I do?

If you do not have enough disk space, free up disk space by deleting unnecessary files or programs, or manually copy the data to another hard disk drive, CD, or DVD.

When do I create the company archive?

You can create a company archive at any time after you have advanced to at least period 1 of the next fiscal year.

We recommend that you archive as soon as you have resolved all audit errors, and you have received and entered all accounting entries, including adjustments.

✳ IMPORTANT:

- If you have more than one fiscal year to archive, you may perform the archive process more than once.

- If you have only one year's worth of data to archive, you must advance to at least period 1 of the next fiscal year in your current company books.

- The company folder cannot be in the same fiscal year that you are trying to archive.

Where in the program do I create a company archive?

You use the **Archive Oldest Fiscal Year** utility in Database Administration to archive your company.

You use the **Archive Payroll Data** utility in Database Administration to archive your Payroll data.

What about data backup?

To prevent loss of data, we highly recommend that you always store one copy of your backed-up data off site for added security.

After creating the company archive, review it to make certain that all records were copied correctly. If you find that the archive is incomplete, restore from a backup copy, and then create a new archive.

About archiving company data

You can archive your data from a given fiscal year at any time. You can advance your fiscal period and archive fiscal data separately. You do not need to close the books at year end, and you do not have to archive your data before advancing to the next fiscal year.

You can archive up to 12 periods at one time. If you have more than one year of fiscal data to archive, perform the archive process more than once.

The Archive Data wizard leads you through the process of archiving your data from previous fiscal periods. It removes the oldest fiscal year of data from your current company, and places it in a separate archive company. Therefore, before archiving a fiscal year, ensure your current period is not in the same fiscal year.

NOTE: You cannot archive a fiscal year until you advance the default posting period to at least period 1 of the following year. You must advance your fiscal period using the **Change Period** window in the Sage 100 Contractor application.

IMPORTANT: Closing the payroll is not the same as closing the accounting books. All companies close payroll at the end of the calendar year, but not all companies close the fiscal year in the general ledger at the end of the calendar year.

Archiving the oldest fiscal year

The data archive process removes the oldest fiscal year of data from your current company, and places it in a separate archive company. Therefore, before archiving a fiscal year, ensure your current period is not in the same fiscal year.

The Archive Data wizard leads you through the process of archiving your data from previous fiscal periods. You can archive up to 12 periods at one time. You do not have to close your fiscal year before archiving your data

Before archiving

Make sure you have :

- Administrator rights for the company you want to archive.
- Posted all transactions for the year your are archiving.

- Advanced the default posting period to at least period 1 of the year following the one you are archiving. (You advance your fiscal period using the **Change Period** window in the Sage 100 Contractor application.)
- Created at least two backups of your company data.

To archive a fiscal year

1. Click **Archive Company Data** > **Archive Oldest Fiscal Year.**

2. On the Archive Oldest Fiscal Year tab, select the company you want to archive from the list box.

   NOTE: Only companies for which your current login ID has administrator rights appear in the list.

   The **Archive Data** wizard opens, displaying information about the archiving process and the tasks you should have completed before archiving.

   TIP: As you proceed through the wizard, you can click the [**Help**] button to view more detailed information about each page.

3. Click [**Next**] .

4. On the Preparation page:

   a. Click [**Begin Preparation**] to start performing all the listed preparatory tasks.

      NOTE: If any problems are encountered, the process stops, and the text on this button changes to [**Resume Preparation**]. Click [**Resume Preparation**] to continue running subsequent tasks to see if there are additional items that require your attention.

   b. When all the preparatory tasks are complete and without error, click [**Next**].

      NOTE: You can click [**Next**] only when all tasks have been completed successfully.

5. On the Maintenance Options page, select one or more maintenance tasks you want to perform prior to archiving, and then click [**Next**].

6. On the Archive Data page:

   a. Type a name for the company archive in the **Enter name for the company archive** box. The name cannot contain any special characters

   b. Click [**Begin Archiving**], and then click [**Yes**] if you are sure you have backed up your data and completed the other tasks in the "Before archiving" section.

      NOTE: If the archive folder exists, it must be empty. Click [**Yes**] to continue the process, or click [**No**] to go back to the Archive Data page.

      If you selected maintenance options before archiving, you can click **View Result** to display a message box that lists information about the maintenance tasks completed.

   c. Click [**Next**].

      When the archiving process has finished, the wizard backs up your data, and then displays information about working with your archive company.

7. Click [**Close**] .

After archiving a fiscal year

If you have more than one year of fiscal data to archive, perform the archive process more than once.

About archiving payroll data

At the end of the calendar year, you archive the payroll to close it and prepare for the new calendar year. During the close, Sage 100 Contractor removes all payroll records and resets the quarter-to-date and year-to-date totals to $0. You can also delete old or unneeded employee records.

> **IMPORTANT:** Closing payroll does not affect the accrued vacation, sick, and compensation times in the employee records that you choose to retain.

> **NOTE:** The payroll archive company is different from the general ledger archive company. If you enter transactions between closing the fiscal year and closing payroll, back up and archive your accounting and payroll records separately to ensure that you have permanent records of all your data.

Before entering timecards for the new calendar year, audit, back up, and then close/archive the payroll. Although you may back up your company data at any time, in the context of closing the payroll, it makes sense to back up your data after you have audited it and corrected any errors.

Closing payroll can be time consuming, and the time necessary to create an archive may be considerable depending on the number of payroll records and employees contained in each company. We recommend creating a schedule of tasks to perform leading up to the close. For example, consider auditing the payroll a month in advance of the scheduled closing date. This should provide enough time to resolve any errors that might exist.

While it is not recommended, you can close payroll with uncomputed records, unposted records, and even payroll audit errors. If you close with unfinished work, you must go back to the archive later, compute and post the records, repair the audit errors, and then adjust the payroll records in the active company. From the archive, you can also prepare and print the state and federal reports (including W-2 forms).

> **NOTE:** When you close a payroll year, Sage 100 Contractorcreates new ACA records for the new payroll year. It uses the December values from the previous year as defaults for each month of the new year.

Verifying the payroll archive

You should check the number of payroll records and Accounts Payable invoices before and after archiving to ensure that your payroll archive is not missing any records.

To verify the payroll archive:

1. Open **Sage 100 Contractor**, and then:

    a. Select the company whose payroll you are going to archive.

    b. Open **5-2-2 Payroll Records**, click **File** > **Count**, and then note the total number of records.

    c. Open **4-2 Accounts Payable Invoices**, click **File** > **Count**, and note the total number of records.

    d. Exit Sage 100 Contractor.

2. In **Database Administrationfor Sage 100 Contractor**, archive the payroll.

3. Open **Sage 100 Contractor**, and then:

    a. Select the archive you created in step 2.

    b. Open **5-2-2 Payroll Records**, click **File** > **Count**, and then note the total number of records.

    c. Open **4-2 Accounts Payable Invoices**, click **File** > **Count**, and then note the total number of records.

4. Compare the record totals before archiving with those from the archive.

- If the totals agree, the records have been archived correctly.

- If the totals do not agree, the archive is incomplete. Restore the company from a backup, and create new archives.

Archiving payroll data

✳ **IMPORTANT:** Archiving and closing payroll at the end of the calendar year is a separate process from closing the fiscal year in the general ledger.

- You cannot process payroll for the new calendar year until you close payroll for the previous year.

- You cannot enter payroll data with check dates in the new calendar year until you close payroll for the previous year.

Before you archive payroll data

- Review the Year End Guide to make sure you are familiar with all aspects of closing a payroll year.

- Make sure that you are in your current company and not in your general ledger archive company.

- Back up and verify two copies of your Sage 100 Contractor data.

    - Put one copy in a safe storage area.

    - Save at least one of your backup copies on a separate removable storage device.

      📋 **NOTE:** You can use this backup copy to verify data integrity if you have to close again.

- Make sure no other users are logged into the company.

To archive payroll data

1. Click **Archive Company Data** >**Archive Payroll Data.**

2. On the Archive Payroll Data tab:

    a. From the **Select the company to archive** list box, select the company for which you want to archive payroll .

    b. In the text box, type a name for the payroll archive.

c. If you want to remove records for employees who no longer work for the company, select their statuses as follows:

- To remove records with 3-Quit status, select the **Quit** check box.

- To remove records with 4-Laid Off status, select the **Laid Off** check box.

- To remove records with 5-Terminated status, select the **Terminated** check box.

- To remove records with 7-Deceased status, select the **Deceased** check box.

3. Click [**Create Archive**] .

> **TIP:** The first payroll of a new year may include ACA hours attributable to the previous year. in the Sage 100 Contractor application, when you run the **5-4-3-21 ACA Hours Allocation** report for an archive company, you can use the **Combine Company for ACA Hours Allocation** window Sage 100 Contractor to combine the report results with the hours entered in the active company. The ACA report then includes payroll records entered for the previous year in the active company's new year.

Scheduling Nightly Maintenance

Schedule Nightly Maintenance utilities enable you to schedule backup and maintenance operations for times when other users are not logged into the system. You can also select the number of consecutive backups to keep.

About scheduling nightly maintenance

You create maintenance schedules so that Sage 100 Contractor will perform maintenance tasks (such as checking data integrity, creating backup copies of your company databases, and removing expired backup files and history tables) at a time when no other users are logged into the system.

You can specify a single schedule for all your Sage 100 Contractor companies, or you can use separate schedules for each company. For example, if you need to keep backup files longer for some companies than for others, you can create separate schedules based on the number of weeks of backup to maintain.

Creating a maintenance schedule

You create maintenance schedules so that Sage 100 Contractor will perform maintenance tasks (such as checking data integrity, creating backup copies of your company databases, and removing expired backup files and history tables) at a time when no other users are logged into the system.

You can specify a single schedule for all your Sage 100 Contractor companies, or you can use separate schedules for each company. For example, if you need to keep backup files longer for some companies than for others, you can create separate schedules based on the number of weeks of backup to maintain.

Before you start

- Determine the best time to perform maintenance for each company (or for all companies).

- Decide whether to keep backup files for one, two, three, or four weeks, or to keep only the latest backup (not recommended!). Expired backup files are deleted during nightly maintenance.

  You can also keep all backup files, if you prefer.

To create a backup schedule

1. Click **Schedule Nightly Maintenance** >**Create Maintenance Schedules.**

2. On the Create Maintenance Schedules tab, select the check box beside each company that will follow this maintenance schedule.

3. From the **Select the time for nightly maintenance** list, select the time to perform maintenance for these companies.

4. From the **Select the number of backups to keep** list, select the period of time to maintain backup files for these companies.

5. Click [**Save Schedule**].

Modifying a maintenance schedule

You can change an established maintenance schedule for any company at any time.

To modify a maintenance schedule

1. Click **Schedule Nightly Maintenance** >**Modify Maintenance Schedules.**

2. On the Modify Maintenance Schedules tab, select the check box beside each company for which you want to change the maintenance schedule.

3. Click [**Modify Schedule**].

Removing a Maintenance Schedule

If you no longer want maintenance performed for a company, you can remove its maintenance schedule.

To remove a maintenance schedule

1. Click **Schedule Nightly Maintenance** >**Remove Maintenance Schedules.**

2. On the Remove Maintenance Schedules tab, select the check box beside each company for which you want to remove the maintenance schedule.

3. Click [**Remove Schedule**].

Managing Company Admins and SQL Logins

You use the **Company Admins / SQL Logins** utilities to authorize user access to the SQL Server database, to designate one or more users as a SQL Server administrator, and to assign administrative privileges to certain users for a Sage 100 Contractor company.

About managing access to your SQL Server instance and to company databases

Sage 100 Contractor2016 provides strong security for your company data.

You use the **Company Admins / SQL Logins** utilities to authorize user access to the SQL Server database, to designate one or more users as a SQL Server administrator, and to assign administrative privileges to certain users for a Sage 100 Contractor company.

You can use Database Administration to set up employees as users in your SQL Server instance, and to designate a user as a company administrator for a specified Sage 100 Contractor company.

A company administrator can always set up additional users and access privileges for those users in a Sage 100 Contractor company for which they have administrative rights.

However, you must use **Database Administration** to designate a user as a SQL Server system administrator (with a 'sysadmin' role).

Allowing access to the SQL Server database

All Sage 100 Contractor users must be registered in your SQL Server system database, which is separate from your company database.

When you or another company administrator adds employees as users in Sage 100 Contractor, you authorize them to use your SQL Server database by:

- Adding their user names to your SQL Server instance.
- Selecting a method to authenticate their user names and passwords.
- Defining their passwords (depending on the authentication method you select).
- Optionally, assigning a system administrator role to a user.

You use the **Add SQL Server Login** tab to add users, along with their credentials, to your SQL Server instance. Also, when a company administrator adds a user to the **7-2-2 User List** in Sage 100 Contractor, the program automatically creates a SQL Server login if the user ID does not yet exist in the SQL Server database.

✳ **IMPORTANT:** The migration utility creates logins for all existing users in the version 19.7 company, assigning the same user names and passwords as before.

Prohibiting all access to the SQL Server database

If an employee leaves your company, use the **Delete SQL Server Logins** tab to remove all access to the SQL Server instance for that employee.

✳ **IMPORTANT:** After you delete a user's SQL Server login, they can no longer sign in to *any* Sage 100 Contractorcompany.

If you need to remove a user's access rights to one company, while maintaining their access to other companies, remove the user from the **7-2-2 User List** for the company in Sage 100 Contractor.

Assigning administrator privileges for a selected company

Users you designate as company administrators have access rights to the entire Sage 100 Contractor program. In addition, only company administrators can perform the following tasks in Sage 100 Contractor:

- Create security groups.
- Grant access rights to security groups for windows and certain items within windows.
- Grant job-level security to specific users.
- Display field properties for a dialog box to set security properties for its various elements or to customize the window in other ways.
- Create user names and passwords, and assign user names to security groups in the **7-2-2 User List** window.
- Set up and modify the General Ledger.
- Restrict posting to specific accounting posting periods.

You use the **Add Company Administrators** tab to designate existing users as administrators for a selected company.

You use the **Modify Company Administrators** if you need to remove a user's administrator access to a selected company, or to restore administrator access to a user that has had it before.

📋 **NOTE:** When you migrate a company, you can select a company administrator from the list of users in the version19.7 company.

SQL Server System administrators ("sysadmin")

Only a user with a sysadmin role in Microsoft SQL Server can administer access to the SQL Server database and assign the sysadmin role to another user. Therefore, it is vital at all times that more than one user has a sysadmin server role. If the principal system administrator should suddenly fall ill, or leave your company, or otherwise be unable to perform their duties, another person with administrative access to the SQL Server database must be able to take over that role.

📋 **NOTE:** The person who installs Sage 100 Contractor is automatically assigned a sysadmin role.

You can designate a user as a sysadmin either when you add their SQL Server login or by using the **Modify SQL Server Administrators** tab.

You also use the **Modify SQL Server Administrators** tab to remove the sysadmin role for a user.

Adding a Company Administrator

Users you designate as company administrators have access rights to the entire Sage 100 Contractor program. In addition, only company administrators can perform the following tasks in Sage 100 Contractor:

- Create security groups.
- Grant access rights to security groups for windows and certain items within windows.
- Grant job-level security to specific users.
- Display field properties for a dialog box to set security properties for its various elements or to customize the window in other ways.
- Create user names and passwords, and assign user names to security groups in the **7-2-2 User List** window.
- Set up and modify the General Ledger.
- Restrict posting to specific accounting posting periods.

To add a user to the list of Company Administrators

1. Click **Company admins / SQL Logins > Add Company Administrator**.
2. From the **Select the company to manage** list, select your company.
3. From the **Select a company administrator** list select the user you want to designate as a company administrator.
4. Click **Create Admin User**.

Modifying Company Administrators

You use the **Modify Company Administrators** if you need to remove a user's administrator access to a selected company, or to restore administrator access to a user that has had it before.

To change a user's administrator access for a selected company

1. Click **Company admins / SQL Logins > Modify Company Administrators**.
2. On the list of users:
   - Select the check box for each user you want to designate as an administrator for this company
   - Clear the check box for each user you want to demote to ordinary access to the company.
3. Click [**Update Admin Users**].

Adding a SQL Server Login

When you or another company administrator adds employees as users in Sage 100 Contractor, you authorize them to use your SQL Server database by:

- Adding their user names to your SQL Server instance.
- Selecting a method to authenticate their user names and passwords.
- Defining their passwords (depending on the authentication method you select).
- Optionally, assigning a system administrator role to a user.

Although you can use SQL Server Management Studio to add SQL Server users, **Database Administration for Sage 100 Contractor** provides a much simpler way to set up SQL Server login credentials.

To add a SQL Server login for a user

1. Click **Company admins / SQL Logins > Add SQL Server Login**.

2. From the **Authentication** list, select an authentication method.

   - If you select Windows Authentication, in the **User name** box, type the Windows user name for this user.
     You must enter a user name that is valid for the Windows domain or workgroup that hosts the SQL Server instance.

     When the user signs into the company with their Windows user name, Sage 100 Contractor authenticates the user name and password they entered when signing into Windows.

   - If you select SQL Server Authentication, type the SQL Server login and password to use to authenticate this user when they sign into the company.

3. If this user should also be a SQL Server administrator, select the **Add as a member of 'sysadmin' server role** check box.

4. Click [**Create SQL Login**].

After adding a SQL Server login

- In Sage 100 Contractor, add the user to the **7-2-2 User List**.
- If the user requires administrative privileges in Sage 100 Contractor, add them as a company administrator using the Database Administration tool.

Deleting a SQL Server Login

If an employee leaves your company, use the **Delete SQL Server Logins** tab to remove all access to the SQL Server instance for that employee.

IMPORTANT: After you delete a user's SQL Server login, they can no longer sign in to *any* Sage 100 Contractorcompany.

If you need to remove a user's access rights to one company, while maintaining their access to other companies, remove the user from the **7-2-2 User List** for the company in Sage 100 Contractor.

To delete a SQL Server login

1. Click Company admins / SQL Logins > Delete SQL Server Logins.

2. On the list of users:

   - Select the check box for each user you want to delete from the SQL Server database.

   - Clear the check box for users whose access to the SQL Server database you want to maintain.

3. Click [**Update sysadmins**].

Modifying SQL Server Administrators

If you do not designate a user as 'sysadmin' when you add their SQL Server login, you can so using the Modify SQL Server Administrators tab.

You also use the Modify SQL Server Administrators tab to remove the 'sysadmin' role for a user.

To change a user's 'sysadmin' role

1. Click Company admins / SQL Logins > Modify SQL Server Administrators.

2. On the list of users:

   - Select the check box for each user you want to designate as an administrator for the SQL Server database.

   - Clear the check box for each user you want to demote to ordinary access to the database.

3. Click [**Update sysadmins**].

Migrating Your Data from Version 19.7

You use the Database Administration tool to convert your version 19.7 data (including all company data in folders and subfolders of …\MB7\[CompanyName]) to the current version. The migration process automatically creates a new SQL Server database and stores your converted SQL data in a new location.

About migrating your data from version 19.7

You use the Database Administration tool to convert your version 19.7 data (including all company data in folders and subfolders of …\MB7\[CompanyName]) to the current version. The migration process automatically creates a new SQL Server database and stores your converted SQL data in a new location.

You can migrate data to version 20.3 only from version 19.7. If your company databases are in an earlier version of Sage 100 Contractor, you must upgrade them to version 19.7 first.

Migrated files are located in shared folders under C:\Sage100Con\Company\[Company Name]. (Users navigate to the \Sage100Contractor\[Company Name] on the server.) Subfolders are organized using a similar folder structure as in earlier versions, and include:

- Aatrix Forms
- Attachments
- Direct Deposit
- Images
- Reports

NOTE: The Direct Deposit and Reports folders are available as soon as you open the company in Sage 100 Contractor. The remaining folders are created as needed.

Migrating shared custom reports

If you customized any of the reports that came with version 19.7, you need to migrate them to version 20.3, also.

NOTE: If you created custom reports using third-party applications, you must use the report views to adapt them, separately, for Sage 100 Contractor 2016.

Private custom reports

In version 19.7, private reports were stored on individual workstations with each user's Windows application data, and therefore cannot be migrated along with the shared custom reports.

In version 20.3, when a user logs into Sage 100 Contractor, the server checks their Windows User Data folder to see if they have any private Sage 100 Contractor. If they do, the program creates a User Data folder on the server for that user's Windows ID, and copies their reports to this folder.

NOTE: The Backup program backs up private reports and other user-specific data for each user. However, the Restore program does not restore them. If a user somehow loses their private reports, you can retrieve them by navigating to a recent backup file (in the local Backup folder) and extracting the user's data folder.

Changes to converted data

During migration, the program may encounter problems in that might prevent it from writing a particular record to the SQL database.

If the problem is one that the migration program can fix, it changes the record, and then writes the updated record to the SQL database. For a list of these errors, see "Errors fixed during migration".

However, not all errors can be fixed. In these cases, the record is not written to the new database.

The migration log file

The program keeps a log of all changed (fixed) records and records that were not migrated because of an unresolvable error, unless the record was invalid in version 19.7. Invalid records are neither migrated nor logged.

IMPORTANT: After migration, you should check the log file to see what changes were made to your data during conversion, or whether any records were not migrated to the new SQL database.

The _SQL_MIGRATION_LOG.TXT file is located in the source company's main folder (for example, C:\MB7\Sample Company). A supplemental file, _SQL_MIGRATION_LOG_VERBOSE.TXT, includes more detailed information about each error found.

After migrating company data and reports

After migrating your data, you will likely need to perform the following additional steps to prepare your company for use in Sage 100 Contractor:

- **Add company administrators.** There is no longer a generic "supervisor" user as there was in version 19.7. All users must sign into the company using their personal IDs, and only users designated as company administrators have heightened privileges previously associated with the "supervisor" role. You can designate one user as a company administrator during migration, but you can add others later.

- **Add SQL logins for new users.** If you have new users that did not exist in your version 19.7 company, add them as users to the SQL database.

  You must also add them as users and assign security in Sage 100 Contractor.

- **Designate an additional SQL Server administrator.** Only a user with a 'sysadmin' role can administer users for SQL Server and assign the 'sysadmin' role to another user. Therefore, it is vital at all times that more than one user has a 'sysadmin' server role. If the principal system administrator should suddenly fall ill, or leave your company, or otherwise be unable to perform their duties, another person with administrative access to the SQL Server database must be able to take over that role.

  NOTE: The person who installs Sage 100 Contractor is automatically assigned a 'sysadmin' role.

- **Migrate scheduled reports and alerts.** You must use Sage 100 Contractor to migrate tasks scheduled in version 19.7 for individual workstations. When you open the **7-5 Scheduled Reports Manager** window or the **7-6 Alerts Manager** window, Sage 100 Contractor checks whether any scheduled reports or alerts exist, respectively, for version 19.7. If it finds any, it displays a migration window that you can use to migrate these tasks to the current version. For more information, see the help for these windows in the Sage 100 Contractor application.

- **Claim Supervisor process maps.** If process maps existed for the Supervisor user in version 19.7, Sage 100 Contractor will attempt to assign them automatically to users that log in to Sage 100 Contractor until the process maps are claimed.

Copying default settings from the Supervisor user

Because each user must have a unique SQL Login to identify them to the SQL server, there is no longer a generic Supervisor user as there was in version 19.7.

Although the migration program does not bring the Supervisor user into the new version of Sage 100 Contractor, you can copy default settings, such as grid views and reporting defaults, saved for the Supervisor in version 19.7 to individual users in Sage 100 Contractor 2016.

NOTE: Copying the Supervisor settings does not copy security settings or desktop settings to users.

1. Log in to the Sage 100 Contractor company as a company administrator.

2. Open the **7-2-2 User List** window.

3. If the user name does not appear in the grid, create the user, and then click the **Save** button.

4. Click the [**Copy User Defaults**] button, or click **Options** > **Copy User Defaults**.

5. In the **Copy User Defaults** window:

   a. On the **Copy defaults from** pane, select **Supervisor**.

   b. On the **Copy to** pane, select the user to whom you want to assign the default Supervisor settings.

      TIP: To copy the settings to more than one user, hold down the Control key while you make multiple selections in the **Copy to** pane.

   c. Click [**OK**].

   d. In the message box, click [**Yes**] to continue.

Migrating Company Data

You use the Database Administration tool to convert your version 19.7 data (including all company data in folders and subfolders of …\MB7\[CompanyName]) to the current version. The migration process automatically creates a new SQL Server database and stores your converted SQL data in a new location.

Before migrating

Migration should proceed smoothly in most instances. However, you should perform the following audits in version 19.7, and then fix any errors, before attempting migration:

- 1-6 Period and Fiscal Year Management > Audit Books
- 5-3-7 Payroll Audit
- 6-6-3 Purchase Order Audit
- 6-7-4 Subcontract Audit
- 12-5 Inventory Audit

NOTE: If your version 19.7 company data includes serious audit errors, you may need assistance from your business partner or consultant to prepare your database for migration.

To migrate your data from version 19.7

1. Click **Migrate from Version 19.7 > Migrate Company Data** .

2. On the **Migrate Company Data** tab:

   a. Click [**Browse**], and then navigate to and select the folder where your version19.7 company data is stored.

   b. Select a company administrator from the list of users that were set up for your company in version19.7.

   c. Specify a maintenance schedule, including the time and the number of backups to keep.

   d. Click [**Migrate Company**].

3. After the migration process has finished, check the SQL Migration Log file, where any errors or changes to your data are recorded.

   The _SQL_MIGRATION_LOG.TXT file is located in the source company's main folder (for example, C:\MB7\Sample Company). A supplemental file, _SQL_MIGRATION_LOG_VERBOSE.TXT, includes more detailed information about each error found.

Converted files are located in shared folders under C:\Sage100Con\Company\[Company Name], organized using a folder structure similar to earlier versions.

After migrating your data

- **Add company administrators.** There is no longer a generic "supervisor" user as there was in version 19.7. All users must sign into the company using their personal IDs, and only users designated as company administrators have heightened privileges previously associated with the "supervisor" role. You can designate one user as a company administrator during migration, but you

- can add others later.

- **Add SQL logins for new users.** If you have new users that did not exist in your version 19.7 company, add them as users to the SQL database.

  You must also add them as users and assign security in Sage 100 Contractor.

- **Designate an additional SQL Server administrator.** Only a user with a 'sysadmin' role can administer users for SQL Server and assign the 'sysadmin' role to another user. Therefore, it is vital at all times that more than one user has a 'sysadmin' server role. If the principal system administrator should suddenly fall ill, or leave your company, or otherwise be unable to perform their duties, another person with administrative access to the SQL Server database must be able to take over that role.

  > **NOTE:** The person who installs Sage 100 Contractor is automatically assigned a 'sysadmin' role.

- **Migrate scheduled reports and alerts.** You must use Sage 100 Contractor to migrate tasks scheduled in version 19.7 for individual workstations. When you open the **7-5 Scheduled Reports Manager** window or the **7-6 Alerts Manager** window, Sage 100 Contractor checks whether any scheduled reports or alerts exist, respectively, for version 19.7. If it finds any, it displays a migration window that you can use to migrate these tasks to the current version. For more information, see the help for these windows in the Sage 100 Contractor application.

- **Claim Supervisor process maps.** If process maps existed for the Supervisor user in version 19.7, Sage 100 Contractor will attempt to assign them automatically to users that log in to Sage 100 Contractor until the process maps are claimed.

Errors fixed during migration

During the migration process, the program may encounter problems in that might prevent writing a particular record to the SQL database.

If the problem is one that the migration program can fix, it changes the record, and then writes the updated record to the SQL database. For example:

- If a record contains a reference to a record that does not exist, the program creates the missing referenced record using the name or description "Unknown [record]," with any required fields.

- If a record contains a defined error that has a prescribed solution, the program applies the solution as it creates the record in the SQL database.

The migration program applies solutions, as described, when it encounters these specific errors:

- Canadian-specific fields that include values in a United States company. These fields are cleared.

- Line tables that include Quantity and Price or Cost fields, where the Price/Cost is negative. The Price/Cost is written as a positive value and the Quantity is made negative.*

- Parts with negative values for Average Cost, Default Cost or Billing Amount. These fields are cleared.*

- Bid Items that are Item# 0 with no value for Item Type. The Item Type is assigned 1-Base Bid.

- Job Costs with no value for Billing Status. The Billing Status is assigned 2-Not Billable.

- Job Costs with no value (or an otherwise invalid value) for Cost Type. The Cost Type is assigned 5-Other.

- Payroll Calculations with negative value for Benefit. The Benefit is changed to 0.

- Purchase Order Lines with AR, AP or SR for the Account. The Account and Subaccount fields are cleared.

- Clients with no value for Part Billing Basis. The Billing Basis is assigned 3 (Billing Amount).

- Clients with no value for Status. The Status is assigned to a new Status record, which is created using the highest available number and description of Unknown Status.*

- Tasks with no value for Task Type. The Task Type is assigned to a new Task Type record, which is created using the highest available number and description of Unknown Type.*

- Service Work Orders/Invoices with no value for Priority (in either the header or Dispatch grid). The Priority is assigned to the default value (either 3 or the customer's setting from F7).

- T&M Billing Setup with no value for Income Account. The Income Account is assigned to the default Income Account from the Job record. (If there is no default value on the Job, the SQL record is not created, and the error is reported in the migration log.)

- Parts with any value other than 0 or 1 for Required from Inventory. The field is assigned 0 (not selected).

- Dispatch Board Column Setup with no value for Record Type. The Record Type is assigned E (Employee).

- Service Areas with no value for Dispatch Color. The Dispatch Color is assigned Black.

- Any Yes/No field with any value other than Y, N, or blank. These fields are cleared.

*These changes are reported in the migration log.

Migrating custom reports

If you customized any of the reports that came with version 19.7, you need to migrate them to version 20.3, also.

NOTE: If you created custom reports using third-party applications, you must use the report views to adapt them, separately, for Sage 100 Contractor 2016.

To migrate your shared custom reports from version 19.7

1. Click **Migrate from Version 19.7 > Migrate Custom Reports**.

2. On the Migrate Custom Reports tab:

   a. Click [**Browse**], and then navigate to and select the folder where your version 19.7 custom reports are stored.

   b. Click [**Migrate Reports**].

In version 19.7, private reports were stored on individual workstations with each user's Windows application data, and therefore cannot be migrated along with the shared custom reports.

In version 20.3, when a user logs into Sage 100 Contractor, the server checks their Windows User Data folder to see if they have any private Sage 100 Contractor. If they do, the program creates a User Data folder on the server for that user's Windows ID, and copies their reports to this folder.

The Toolbox and Troubleshooting

About using the Toolbox for troubleshooting

Database Administration for Sage 100 Contractor provides a variety of troubleshooting tools to help you track changes in your database, and to diagnose and fix certain types of problems.

The following sections describe these tools in more detail.

About Dashboard

The Dashboard provides visual feedback showing whether your Sage 100 Contractor system is configured using the recommended settings and is operating satisfactorily.

NOTE: The Dashboard was not designed as a sophisticated performance analyzer, but to provide a quick "health check" on your system.

Status indicators

Each of the following factors contributes to the efficient operation of your system:

- **Computer's Power Plan.** For more information, see "About Computer's Power Plan" on page 44.
- **Database Usage.** For more information, see "About Database Usage" on page 45.
- **SQL Memory Allocation.** For more information, see "About SQL Memory Allocation" on page 45.
- **Disk Performance.** For more information, see "About Disk Performance" on page 46.
- **Network Configuration.** For more information, see "About Network Configuration" on page 47.

The Dashboard's "traffic lights" provide visual cues about the status of each factor:

Status	Condition of your system
	Your system is using the recommended settings and is operating as expected.
	There is a potential problem that you should investigate.
	There is a serious problem that needs your attention.

When viewing the Dashboard, you can:

- Obtain additional information about a particular condition by clicking the adjacent **view details** link.
- Update the entire dashboard with the latest conditions—particularly after adjusting these settings—by clicking [**Refresh**].

About Computer's Power Plan

This Dashboard indicator shows whether your computer's power plan is supporting or impairing users' connections to the server.

The server must be available at all times so that users at workstations can connect to it. If the computer's power plan allows the computer to sleep or hibernate, or turns off the hard disks during periods of inactivity, performance will be degraded.

Status	Condition of your system
🟩	The computer's power plan uses Sage's recommendations. The settings do not allow the computer to sleep, hibernate, or turns off hard disks during inactive periods.
🟨	We could not determine your computer's power plan settings. You should ensure that the power plan does not permit the computer to sleep or hibernate, or turns off hard disks during inactive periods. Click the adjacent view details link on the Dashboard for help in resolving your computer's power settings.
🟥	The power plan does not meet our recommendations. Performance will be impaired unless you adjust the settings. Click the adjacent view details link on the Dashboard for help in resolving your computer's power settings.

About Database Usage

This Dashboard indicator helps you to determine whether there is sufficient disk space for databases to expand. It warns you if existing storage is nearing the maximum capacity of the disk.

Status	Condition of your system
🟩	Overall used disk capacity is less than 85% and (if you are running SQL Express) the capacity used for every database is less than 70% .
🟨	Overall used disk capacity is 85 to 90%, or (if you are running SQL Express) the capacity used by at least one database is between 70% and 80%. Click the adjacent view details link on the Dashboard for more information about your computer's settings.
🟥	Overall used disk capacity is more than 90%, or (if you are running SQL Express) at least one database is using more than 80% of overall capacity. Click the adjacent view details link on the Dashboard for more information about your computer's settings.

About SQL Memory Allocation

This Dashboard indicator shows whether the memory allocated to SQL Server is sufficient to handle the load efficiently. The status light reflects the lowest status determined for the following measurements:

The Toolbox and Troubleshooting

- The amount of the server's memory that is dedicated to SQL Server.

- The average number of seconds the allocated memory can hold SQL data before it needs to be dumped in order to handle new processes. Called "page life expectancy" (PLE), this value is measured for each database during nightly maintenance or a manual tune-up.

For example, if either the memory allocation or the PLE of any database is red, the Dashboard status light is red.

NOTE: A gray status and "Insufficient data" is displayed if there are fewer than 20 PLE records in the database.

Status	Condition of your system
🟩	The computer's memory allocation is at least 4 GB (or 25% of total memory, if less than 4 GB), and the PLE for all databases is at least 36,000 seconds.
🟨	The computer's memory allocation is between 1 GB and 4 GB (and less than 25% of total memory), or the PLE for any database is between 3,600 and 36,000. Click the adjacent view details link on the Dashboard for more information about your computer's settings.
🟥	The computer's memory allocation is below 1 GB, or the PLE for any database is below 3,600. Performance will be impaired unless you adjust the settings. Click the adjacent view details link on the Dashboard for more information about your computer's settings.

About Disk Performance

This Dashboard indicator shows whether the average speed with which the computer writes to and reads from the data drive is adequate.

IMPORTANT: Operating system-based disk caching is disabled for this test, so the actual performance may be much greater than reported here.

Status	Condition of your system
🟩	The computer reads and writes at a minimum rate of 100 MBps.
🟨	The computer reads or writes at a rate between 50 MBps and 100 MBps. Click the adjacent view details link on the Dashboard for more information about your computer's settings.

Status	Condition of your system
🟥	The computer reads or writes at a rate below 50 MBps. Click the adjacent view details link on the Dashboard for more information about your computer's settings.

About Network Configuration

This indicator shows whether the network adapters used on the server and on each computer that connects to a Sage 100 Contractor database matches the recommended speed of 1 gigabit per second.

Status	Condition of your system
🟩	1-gigabit connections are available for all reporting computers.
🟨	100-megabit connections are used by at least one reporting computer. Click the adjacent view details link on the Dashboard for more information about your computer's settings.
🟥	10-megabit connections are used by at least one reporting computer. Click the adjacent view details link on the Dashboard for more information about your computer's settings.

Server Tools

✳ **IMPORTANT:** These sophisticated tools were designed to help Customer Support personnel efficiently resolve certain system problems that, although rare, would be time-consuming to fix otherwise.

📋 **NOTE:** Although running these tools causes no harm to your system, there is no advantage to doing so unless you have one of the problems that the tools are designed to fix.

- **Start Microsoft SQL Server Profiler.** You use the SQL Server Profiler to monitor the effect of changes to your database on your SQL Server instance.

  📋 **NOTE:** To take advantage of this feature, you should be familiar with SQL Server Profiler concepts and tasks.

- **Remove orphaned file shares.** Every company has a folder on the server that provides access from workstations to external files, such as file attachments, that are associated with the company.

  If a file share is not removed automatically when you delete a company—for example, if you deleted a database using SQL Server Management Studio and did not remove the corresponding file share manually—you could remove it using this tool. (Note that we strongly recommend that you only ever use Database Administration to delete companies.)

- **Remove orphaned nightly maintenance tasks.** If the scheduled maintenance task for a company is not removed automatically from Windows Task Scheduler when you delete the company, this tool can remove the task.

  NOTE: We strongly recommend that you only ever use Sage 100 Contractor Database Administrationto delete companies!

- **Reapply file permissions.** Sage 100 Contractor maintains a system for managing access to data, and assigns security settings to each folder when the folder is created. Changing these security settings can have a detrimental effect on the normal operation of the software. This function reassigns the original security settings to each

  folder in the Sage 100 Contractor system.

- **Reapply firewall rules.** Selecting the **Enable other machines to connect to this SQL server instance**, in Advanced Settings, creates the firewall rules required for workstations to connect to the server.

  However, if the rules are later deleted in the firewall software, this tool reinstates them. For example, Windows 10 might have altered the firewall rules during an upgrade from an earlier version of Windows, or another user may have changed the firewall rules without realizing the implications for Sage 100 Contractor.

- **Move default 'tempdb' to Sage 100 Contractor's preferred location.** SQL Server uses the tempdb directory to hold temporary objects required for processing, and is recreated each time you start SQL Server.

  The first time you run Sage 100 Contractor Database Administration, it moves the tempdb location to the \Sage100Con\Company directory. This is the preferred location because:

  - The program sets the directory permissions correctly.

  - You can select a drive that has sufficient space and performance characteristics during setup.

  IMPORTANT: You cannot delete this directory while the tempdb MDF and LDF files are stored here. Do not attempt to stop the SQL Server service, and then delete the directory. You will not be able to restart the SQL Server service because the tempdb location will be invalid.

- **Move default 'tempdb' to SQL Server's default location.** When you create the SQL Server instance, the tempdb is created automatically in the SQL Server default location (typically C:\Program Files\Microsoft SQL Server\MSSQL12.SAGE100CON\MSSQL\DATA). However, this location is not optimal because:

  - The C:\ drive may have limited space, and the tempdb is likely to grow, which can cause operational problems. For example, if a query requires more tempdb space than can be allocated, the query will fail.

  - The C:\ drive may be slow.

  - The permissions to the C:\drive may be very restricted.

  Although it is not optimal, you can relocate the tempdb location if you need to delete the directory at the Sage 100 Contractor preferred location.

Company Tools

IMPORTANT: Company Tools generate reports designed to help expert users, such as Customer Support personnel and business partners, identify changes that third-party applications have made to your company data or to the database schema.

You can generate one of the following reports at a time:

- **Display all data modifications made by programs other than Sage 100 Contractor.** This tool queries all audit (or history) tables and reports on changes made by any third-party applications.

  NOTE: The data contained in the report is time-sensitive, and depends on the history retention policy specified for your company in **Advanced Company Settings**. (The default period is 90 days.)

- **Display all database schema alterations made by programs other than Sage 100 Contractor.** This tool reports all changes to the schema made by third-party applications. The database schema functions as the blueprint for your database, and determines the type and format of information you can enter into it. Unauthorized schema changes can cause unpredictable behavior, and problems during updates or upgrades.

The report contents are presented in a grid in a separate window. Although you cannot edit the data in the grid, you can use the column headings to sort the items that appear in it, and (in the data modifications report) you can also use filters to restrict the selection of data modifications.

Data modifications

The data modifications tool provides three filters (located at the top of the results window) that you can use to restrict the results that appear in the grid. You can filter records by:

- **Tables.** You can select All Tables or a particular table from the list.
- **Users.** You can select All Users or a particular user.
- **Applications.** You can select All Applications or a particular application.

The resulting report provides information about these types of data changes for the selected company:

- Insertions
- Deletions
- Modifications

Drilling down to view details about a change

To view details about a specific change, you click the **Row#** cell, or select the row, and then press [**Enter**].

The details window displays all the fields for the selected record, and shows the value of each field before and after the change.

Schema changes

The schema should not be modified, except by Sage.

If certain types of problems arising during a software update or an upgrade, or if you are suddenly unable to save records, Customer Support may ask you to run this tool to rule out possible schema changes or to identify the third party responsible for the changes.

Support Script

You use this utility to run scripts that Sage Customer Support provides to repair your data.

Before you start

- When you receive a support script file from Sage, download it to this location on your server: \Sage100Con\SupportScripts.
- Make sure that all other users are logged out of the company.

To run a support script:

1. In Database Administration, click **Toolbox**> **Support Script**.

2. On the Support Script tab:

   a. Select the company from the list box.

   b. Click the [**Browse**] button, select the SQL script file you saved earlier, and then click [**Open**].

   The program displays the support ticket number, Knowledgebase article ID, and a description of the work that the script will perform.

   c. Click [**Run Script**].

   > **NOTE:** If any users are still logged into the company, you receive a message showing who the users are. You cannot continue running the script until these users have logged out.

   If the script stops running for any reason, the program restores your data to its state before your tried to run the script, and it displays a message explaining why the script did not finish running.

Warning Messages

Database Capacity Warning Message

If your company data is approaching the maximum capacity of the database, Sage 100 Contractor users see a critical warning advising them to contact their company administrator.

To ensure that you do not run out of space in the database, we recommend that you take one or more of the following actions if you receive this message:

- Archive some of your data to another database.
- In Sage 100 Contractor, remove jobs (using the **3-5 Jobs** window), purchase orders (using the **6-6-1 Purchase Orders** window), and/or service invoices (using the **11-2 Work Orders/Invoices/Credits**window).
- Purchase an edition of Microsoft SQL Server other than Microsoft SQL Express.
- Purge History tables or reduce the period of time to keep history tables (only if necessary!).

No Backup Warning Message

If your company files have not been backed up as scheduled in Database Administration, Sage 100 Contractor users see a warning advising them to contact their company administrator.

Depending on when the files were last backed up successfully, the message conveys the degree of urgency for the administrator to respond to the problem:

- A warning appears if the scheduled backup failed to run the previous night.
- A critical warning appears if the scheduled backup has not run for a number of days.
- A critical warning also appears if the scheduled backup has never run.

IMPORTANT: *If you are a Sage 100 Contractor user and you see this message, inform your company administrator immediately.* Be sure to note the type of warning, including the information about the last successful backup.

If you are the company administrator, you should:

- Immediately back up your company files, manually, using the **Back Up Companies** utility in Database Administration.

  Back up manually each day until you resolve the problem that is preventing the scheduled backup procedure.

- In Database Administration, check whether a scheduled maintenance task exists for the company on the **Modify Maintenance Schedules** tab.

  If no maintenance task exists for the company, use the **Create Maintenance Schedules** tab to create one.

  If a task does exist, you may be able to resolve the problem either by modifying the task (using **Modify Maintenance Schedules**), or by removing it (using **Remove Maintenance Schedules**), and then creating a new one.

- Check whether another server event occurs at the same time as the maintenance is scheduled to run, which could interfere with the maintenance process.

  If another server event is scheduled at the same time, try changing the time of one or the other task, so they do not conflict.

If you are unable to resolve the problem using these methods, contact support for further assistance.

Depending on your Sage service plan, you may be able to contact the Sage Customer Support Call Center to work with one of our highly trained customer support professionals. The Knowledgebase article How do I get technical support for Sage 100 Contractor? provides contact information and hours of operation, and it can help you to determine which service works best for you.

Advanced Settings

Using Advanced Company Settings to maintain database history

You use the options on the **Advanced Company Settings** tab to specify how long to keep history about database changes for each Sage 100 Contractor company you manage. Details older than the retention period you specify are removed during nightly maintenance.

You can remove *all database history* for a selected company by clicking the [**Purge History Tables**] button.

To set a retention period for database history

1. Click **Advanced Settings** > **Advanced Company Settings**.

2. Select the company for which you are setting the history retention period.

3. Select the number of days for which to retain history.

4. Click [**Save Changes**].

Selecting Advanced SQL Server Settings

You use the options on the **Advanced SQL Server Settings** tab to reconfigure certain aspects of your SQL Server instance, including memory management, connection timeout, communication encryption , and certain types of access.

✳ **IMPORTANT:** The settings you choose on this tab apply to all the databases in the SQL Server instance, not just to one company.

❯ **TIP:** If you want to monitor the effect of changes to these settings on your SQL Server instance, open the **Microsoft SQL Server Profiler** from the **Toolbox**.

To reconfigure advanced SQL Server settings

1. Click **Advanced Settings** > **Advanced SQL Server Settings**.

2. Select or enter settings on the **Advanced SQL Server Settings** tab, as follows:

   - **Maximum SQL Server memory**. Type the maximum amount of memory to allow this instance to use, in megabytes.

   - **Server connection timeout**. Type the maximum number of seconds to allow the server to respond to a request from another machine before dropping the request and displaying a connection error to the user.

   - **Enable other machines to connect to this SQL Server instance**. This option is selected by default to allow other machines in a networked environment to connect to the SQL Server instance.

     You may want to clear this option to prevent connections while you perform maintenance on the database, or if you need to isolate the instance from an immediate threat.

- **Encrypt communication from Sage 100 Contractor to this SQL Server instance**.

- **Limit access for members of the 'sysadmin' role to this machine only**. This option is selected by default to ensure that the sysadmin role can obtain access to the SQL Server instance only from the machine that is acting as the server.

- **Limit access to this SQL Server instance to approved applications**. Access to the SQL Server instance is always approved for Sage 100 Contractor because it is necessary to run the software. However, you might want to allow other applications, such as Microsoft Excel, to communicate with the instance as well. You can select which applications can communicate with this SQL Server instance, as follows:

  i. Click [**Edit Approvals**].

  ii. In the **Enable Access from Other Applications** window, select the check box beside each application that you allow to communicate with this SQL Server instance.

     > **NOTE:** You can select only applications that include an application name in their database connection strings. You cannot allow applications to connect that do not identify themselves properly.

  iii. To edit the XML configuration file directly, click **Edit advanced restrictions**, and then follow the instructions in the XML file to define the restrictions that you need.

3. If you want to restore the "factory settings" after reconfiguring any of these settings, click [**Restore Defaults**] .

4. When you are satisfied with your selections, click [**Save Changes**].

Selecting Advanced Backup Settings

You use the options on the **Advanced Backup Settings** tab to:

- Specify a different local folder to store backup files.

- Specify a retention plan for local "on demand" backup files.

> **IMPORTANT:** The settings you choose on this tab apply to all the databases in the SQL Server instance, not just to one company.

To set a retention period for database history

1. Click **Advanced Settings** > **Advanced Backup Settings**.

2. In the **Set local backup folder** box, type the path and name of the folder on the server machine where you want to store backup files, or browse to the folder.

   When you browse to a location, you can create a new folder, if one does not already exist.

3. For each type of "on demand" backup, specify the number of days to retain back files.

4. Click [**Save Changes**].

   When you save your changes, Database Administration sets the same permissions on the new backup folder as for the default backup folder. That is, only administrator users have access to the folder.

Index

D