Guide

Sage 200 Professional

System Requirements and
Prerequisites for on-premise
deployment (2023 R2)

Sage

Copyright statement

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Introduction

This guide is designed to provide Business Partners and customers with the system requirements for Sage 200 Professional in an on-premise deployment.

Sage 200 Professional is made up of various core and optional modules that integrate with the core product. When determining your system requirements, you must make sure that you have considered the requirements for all the parts that you want to use, as some modules have different system requirements.

The application footprint on each of the Sage 200 client machines can be large. Each of the client machines that run Sage 200, as well as the servers, must meet the minimum specification. See Minimum specifications for client and server machines on page 20.

> **Note:** We will sometimes update these guides with new information or corrections. The most up-to-date versions of our guides are available from: Sage 200 Installing and Upgrading.

New for Sage 200 Professional

2023 R2

- There are no changes to supported software or prerequisites in this version.

2023 R1

Changes to supported software

Support added

- Windows 11, for the Sage 200 migration tool.
- Microsoft SQL Server 2022.

Support removed

- Windows 8.1, for the Sage 200 client, and Sage 50 Accounts to Sage 200 migration tool.
- Windows Server 2016 and 2017, for the Sage 200 server and client.
- Microsoft SQL Server 2016.

See .

Checking the prerequisites

Before you install Sage 200, you must make sure the required prerequisites are installed on your system. You must also make sure that your installations of Microsoft SQL Server and Microsoft Internet Information Services (IIS) have the required settings.

Using the prerequisite tool

We have provided a tool to help you check that the required prerequisites are installed on your server. Use this tool to check the following:

☑ The server machine name starts with a letter, end with a letter or digit, and have as interior characters only letters, digits, and hyphens.

For more information about Domain name rules, see section 2.3.1 of the following article:www.faqs.org/rfcs/rfc1035.htm↗

☑ Windows Identity Foundation is installed. This can be added as feature.

☑ Microsoft .NET Framework version 4.7.2 (or later) is installed.

> **Note:** This may already be included if you have installed a later version of .NET Framework.

☑ .NET Framework 4.5 (or later) Features with HTTP Activation.

☑ IIS v10 or higher installed, with the following settings:

- ○ Common HTTP Features
  - Default Document
  - Directory Browsing
  - HTTP Errors
  - HTTP Redirection
  - Static Content

- ○ Application Development Features
  - .NET Extensibility 4.5 (or later)
  - ASP
  - ASP .NET 4.5 (or later)
  - ISAPI Extensions
  - ISAPI Filters

- ○ Security
  - Request Filtering
  - Windows Authentication

- ○ Web Management Tools
  - IIS Management Console

- ○ Web Management Tools > IIS 6 Management Compatibility
  - IIS 6 WMI Compatibility
  - IIS 6 Metabase and IIS 6 configuration compatibility

Run the prerequisite tool

1. Open the **Prerequisite check tool** folder on the ISO.

2. Double – click the **PreRequisiteCheckTool.exe**.

3. Click **Start**.

4. The results will show which prerequisites are installed.
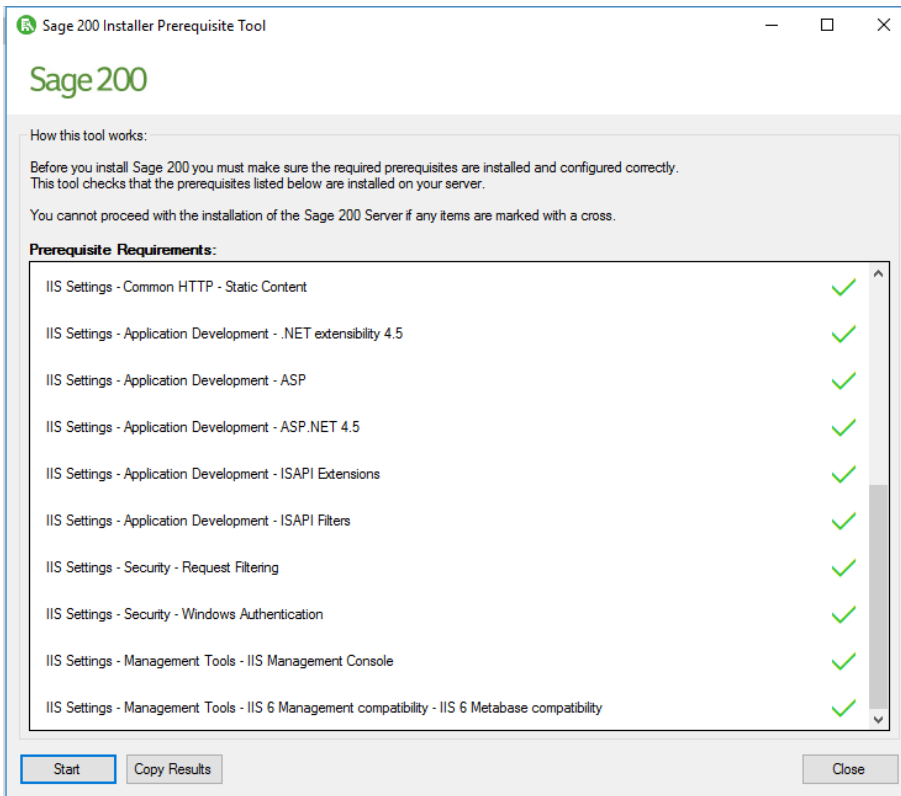
Additional requirements (not checked by the tool)

- All machines must have regional and language settings set to either **English (UK)** or **English (Ireland)** only.
- Your domain controller must **not** be set to **Read Only**.
- All machines must have a **c:** drive although Sage 200 can be installed and run from a drive other than **c:**.
- Microsoft SQL Server:
  - SQL server must support TLS 1.2.
  - Must be running in Mixed Mode (SQL Server and Windows Authentication mode).
  - The **Server Collation** for SQL server must be set to **Latin1_General_CI_AS**.
  - The **Default Language** for SQL server must be set to **English**. Do not set it to **British English**.
  - If you're using Business Intelligence, SQL Server and Analysis Services must be installed on the same machine with the same instance name.

Prerequisites for the client

- All machine names must start with a letter, end with a letter or digit, and have as interior characters only letters, digits, and hyphens.

- All machines must have regional and language settings set to either **English (UK)** or **English (Ireland)** only.

- All machines must have a **c:** drive although Sage 200 can be installed and run from a drive other than **c:**.

- Microsoft .NET Framework version 4.7.2 **must** be installed.

- Microsoft .NET Framework version 3.5 is also installed, if you are using Sage 200 BI.

- Microsoft Visual C++ 2015-2019 Redistributable (x86) - 14.24.28127.

  Microsoft Visual C++ 2013 Redistributable (x86) — 12.0.40664.

  Microsoft Visual C++ 2010 x86 Redistributable (for Manufacturing client only).

  Note: These are included in the Sage 200 installer, but can also be downloaded from Microsoft: The latest supported Visual C++ downloads⤴

Supported software

Operating systems

	Server	Client
Windows 11 (Pro and Enterprise editions)	No [1]	Yes
Windows 10 (32-bit and 64-bit) (Pro and Enterprise editions)	No [1]	Yes
Windows Server 2022 (Standard, Essentials & Datacenter editions)	Yes	Yes
Windows Server 2019 (Standard, Essentials & Datacenter editions)	Yes	Yes

[1] Not supported for production environments but may be used for demonstration and training purposes only.

Sage 50 Accounts to Sage 200 migration tool

Windows 11 (Pro and Enterprise editions)
Windows 10 (32-bit and 64-bit) (Pro and Enterprise editions)

Sage connected apps - Sage Contact app, Power BI, Power Automate

Sage connected apps refers to applications that connect to your Microsoft 365 account. This includes the Sage Contact app, Microsoft Power BI, and Microsoft Power Automate.

- The Sage connected apps can only be used with Microsoft 365 Business Standard (formerly Office 365 Business Premium), Enterprise (E1, E3 or E5) or Office 365 Education (A1, A3, A5) subscriptions.
- To use Microsoft Power Automate with our provided flows, we recommend a Power Automate *Per user plan*.

Wide Area Network (WAN) and Virtual Private Network (VPN) connections

We do **not** support running Sage 200 over a Wide Area Network (WAN) or a Virtual Private Network (VPN). These connection types usually increase latency in communications between the Sage 200 server, the Sage 200 client and the SQL server. High latency between these components can cause unacceptable performance and database timeouts.

Remote Desktop Services (formerly Terminal Services)

	Server	Client
Windows Server 2022 *	Yes	Yes
Windows Server 2019 *	Yes	Yes

* The application must be deployed using 'Session based Desktop Deployment' with a published remote desktop. 'Virtual machine based desktop deployment' is not supported.

Requirements for deploying Remote Desktop Services:

- The Remote Desktop Services installation must be deployed using **Session-based desktop deployment**. Deployment using **Virtual-machine based desktop deployment** is **not** recommended.
- Sage 200 is only recommended when publishing the whole desktop environment through Remote Desktop Services.

  Delivering Sage 200 as a **RemoteApp** solution is **not** recommended.

For Remote Desktop Services servers hosting Sage 200 client sessions, we recommend:

- At least 600MB memory per user on the server, for each client session running occasional or one-off tasks, such as an account enquiry or price check.
- At least 1GB memory for each client session processing for any prolonged period of time, for tasks such as checking in stock, or creating purchase orders.
- You should run large batch processes and updates on the local area network, or out of hours.

> **Note:** These figures are for the Sage 200 desktop only. If other applications are to be ran at the same time, they will have their own memory requirements.

SQL server

Microsoft SQL Server 2022 – Standard or Enterprise editions
Microsoft SQL Server 2019 – Standard or Enterprise editions
Microsoft SQL Server 2017 – Standard, Business Intelligence, Enterprise editions (64-bit)

Prerequisites for SQL server

> Sage 200 Professional is **not** supported when SQL server is installed on a Domain controller.

- SQL server must support TLS 1.2.
- In **Server Configuration**, the **Server Collation** for SQL server must be set to **Latin1_General_CI_AS**.

- In **Database Engine Configuration**, the SQL server **Authentication mode** must be set to **Mixed Mode (SQL Server authentication and Windows authentication)**.
- The **Default Language** for SQL server must be set to **English**. Do not set it to **British English**.
- We recommend that you use the default accounts set up by the SQL server installation wizard. (In previous editions of Microsoft SQL Server, we recommended running SQL Server as Local System Accounts.)
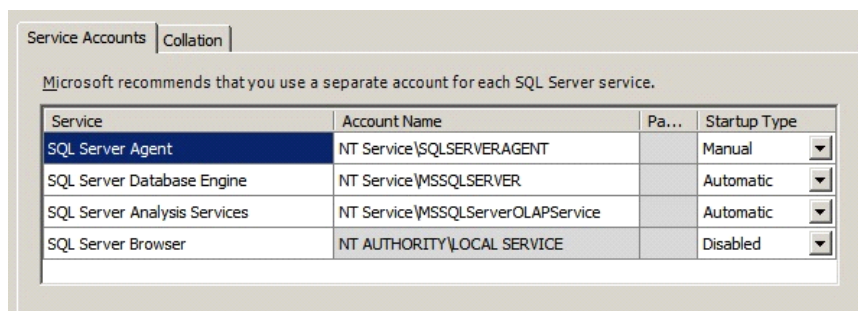
For Sage 200 BI

- Sage 200 BI is not supported on Workgroup editions of SQL server. This is because Business Intelligence requires Analysis Services.
- Microsoft SQL Server and Analysis Services must be installed on the same machine with the same instance name.

Web browsers and devices

	Desktop App	Web Portal	Self Service web app
Microsoft Edge on Windows desktop PCs and tablets	Yes	Yes	Yes
Apple Safari on tablets (iOS)	Not applicable	Yes	Yes
Google Chrome on Windows desktop PCs and Android tablets	Yes	Yes	Yes

- The Web Portal is designed to be used with desktop monitors and tablets, with the screen in landscape (horizontal) mode.
- Other web browsers and devices may be compatible but have not been tested.

Automatically log in to workspaces

When accessing workspaces in the desktop app or from the Self Service web app, you may be asked to login. If you don't wish to be prompted each time, you can set your browser to always use your login credentials.

Browser	Settings
Chrome – Self	Set **User Authentication > Logon** to **Automatic Logon with current user name and password**.

Browser	Settings
	Enter the following from the Command prompt:
	■ For 32-bit operating systems:
	"C:\Program Files\Google\Chrome\Application\chrome.exe" -auth-server-whitelist="localhost, _<machine fully qualified domain name>"_. For example: **"C:\Program Files\Google\Chrome\Application\chrome.exe" -auth-server-whitelist=localhost, sagesvr01.mydomain.com"**
	■ For 64-bit operating systems:
	"C:\Program Files (x86)\Google\Chrome\Application\chrome.exe" -auth-server-whitelist="localhost, _<machine fully qualified domain name>"_. For example: **"C:\Program Files (x86)\Google\Chrome\Application\chrome.exe" -auth-server-whitelist=localhost, sagesvr01.mydomain.com"**

Microsoft 365 / Microsoft Office

	2021 [1]		2019 [1]		Microsoft 365 [2]		
Functions	**32-bit**	**64-bit**	**32-bit**	**64-bit**	**Desktop 32-bit**	**Desktop 64-bit**	**Online App**
Excel Reporting	Yes	Yes	Yes	Yes	Yes	Yes	No
Send to Excel (from workspaces and lists)	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Opening Attachments	Yes	Yes	Yes	Yes	Yes	Yes	No
Send Email (not from Report Designer)	Yes	No	Yes	No	Yes	No	No
Report Designer – output to email	Yes	No	Yes	No	Yes	No	No
Sage Contact, Power BI, Power Automate [4]	No	No	No	No	Yes [3]	Yes [3]	Yes [3]
Sage 200 BI	Yes	No	Yes	No	No	No	No

[1] Microsoft Office 2021, 2019 – Standard, Home and Business, Small Business Premium, Professional Plus, and Enterprise editions.

[2] Microsoft 365 Business Standard (formerly Office 365 Business Premium), Microsoft 365 Apps for Enterprise (formerly Office 365 Professional Plus), and Enterprise editions. Home and Personal editions are **not** supported.

[3] Microsoft 365 Business Standard (formerly Office 365 Business Premium), Enterprise (E1, E3 or E5) or Office 365 Education (A1, A3, A5) subscription is required for Sage connected apps: Sage Contact, Microsoft Power BI, and Microsoft Power Automate. Your Microsoft 365 subscription must include Azure Active Directory Premium P1/P2.

[4] To use Microsoft Power Automate, we recommend a Power Automate Per user plan.

Compatibility checker

We've produced this article to help you quickly check compatibility for the Sage 200 suite.

- Sage 200 Professional – Compatibility Checker for Sage 200 Suite⇗

Security and firewall settings

Sage 200 Professional uses a combination of Windows security and SSL certificates to secure communications between the Sage 200 server and client machines.

Windows File Permissions

The Sage 200 client can be installed to any location on a client machine. To find the Sage 200 server, the client looks for a file called **\\server name\Sage**.

In the final step of installation process, the permissions of this folder share are changed as follows:

Domain

When deployed in an Active Directory Domain environment, access to the central Sage file share (e.g. c:\Sage) and associated files and subdirectories is restricted to the Sage 200 user and admin groups.

> **Note:** All domain controllers on the same domain as Sage 200 need to be accessible and writeable.

Workgroup

When deployed in a Windows workgroup environment, the central Sage file share (e.g. c:\Sage) and associated files and subdirectories have their permissions set to **Everyone | FullControl**. We recommend that you set the Share and Security permissions as follows:

- Set the Share permissions to **FullControl/Change/Read** for these users:
  - Sage 200 Administrators group
  - Sage 200 Users group
  - Sage 200 Services user
  - Sage 200 Secured Services user

- Set the Folder Security to **Modify/Read&Execute/ListFolderContents/Read/Write** for these users:
  - Sage 200 Administrators group
  - Sage 200 Users group
  - Sage 200 Secured Services user

> **Note:** Once you have installed Sage 200, restart the machine before you access System Administration. This is so the security permissions are set correctly.

Already have a shared Sage folder on your server?

If you already have a folder share called Sage on your server, then the permissions for this folder will be changed as part of the Sage 200 client installation. You can:

1. Change the name of the share for the existing folder.

2. Install Sage 200 to the existing folder if you're happy with permissions.

Firewall settings

Sage 200 runs a variety of programs and services that can be affected by security firewall settings. The following table details the ports that need to be opened in order for Sage 200 to function correctly.

Server	Port	Details
Database Server (Default SQL Instance)	TCP Port 1433	Default SQL Instance
Database Server (Named SQL instance)	UDP Port 1434	Named SQL Instance
File Server	TCP Port 139	File & Print Sharing
	TCP Port 445	File & Print Sharing
	TCP Port 137	File & Print Sharing
	TCP Port 138	File & Print Sharing
	TCP Port 10443	HTTPS
	TCP Port 443[1]	HTTPS
Sage 200 Self Service	TCP Port 10444	HTTPS

[1] You will need to open port 443 on your server machine, and grant permission for:

- **https://licensing.services.sage.com** and **https://licensing2.services.sage.com**

- **https://s200aproproductstore.blob.core.windows.net**

- **www.google.com**

  Google needs to be allowed as Sage 200 will ping Google to check for an internet connection before it connects to the licensing server.

The following ports are required for Sage 200 BI:

Server	Port	Details
Database Server (Default SQL Instance)	TCP Port 2383	SQL Analysis Services
Database Server (Named SQL Instance)[2]	TCP Port 2382	SQL Analysis Services
	UDP Port 1434	SQL Browser Service

[2] For more information see, msdn.microsoft.com/en-us/library/ms174937.aspx#bkmk_named.

The following are required if you use Opayo (formerly Sage Pay):

URL	Port	Details
test.sagepay.com	TCP Port 443	HTTPS
live.sagepay.com	TCP Port 443	HTTPS

Additional firewall settings if you have a named SQL instance or dynamic ports

Follow the steps below if you have named SQL instance or are using dynamic ports:

1. Find the port number:

   a. Open **Start > All Programs > Microsoft SQL Server *version* > Configuration Tools > SQL Server Configuration Manager**.

   b. Select **SQL Server Network Configuration > Protocols for *<your instance Name>***.

   c. Right-click **TCP/IP** and select **Properties**.

   d. Select the **IP Addresses** tab and scroll down to the **IPAll** group.

   e. The current port is the **TCP Dynamic Ports** number.

2. Set your Firewall to exclude this port number.

Application files

If you control and restrict the applications that can be run in your environment, you will need to allow certain application files to run for Sage 200 and its utilities.

Application files required for Sage 200

Sage 200 client installer

setup.exe

NDP472-KB4054530-x86-x64-AllOS-ENU.exe

vcredist_x86.exe

Sage 200 client

CefSharp.BrowserSubprocess.exe.deploy

RunElevatedInstallOperations.exe.deploy

Sage.MMS.Launcher.Remote.exe.deploy

Sage200Desktop.exe.deploy

Sage200WorkspaceDesigner.exe.deploy

SageReportDesigner.exe.deploy

> **Note:** The .deploy files are used for ClickOnce applications.

Sage 200 Manufacturing client installer

setup.exe

NDP472-KB4054530-x86-x64-AllOS-ENU.exe

vcredist_x86.exe

Sage 200 Manufacturing client

CefSharp.BrowserSubprocess.exe.deploy

NominalLinkLauncher.exe.deploy

RunElevatedInstallOperations.exe.deploy

Sage.Manufacturing.AutomatedMrpRun.exe.deploy

Sage.Manufacturing.OperationTimes.exe.deploy

Sage.MMS.Launcher.Remote.exe.deploy

Sage200Desktop.exe.deploy

Sage200Desktop.exe.manifest.deploy

Sage200WorkspaceDesigner.exe.deploy

SageReportDesigner.exe.deploy

> **Note:** The .deploy files are used for ClickOnce applications.

Sage 200 System Administration installer

NDP472-KB4054530-x86-x64-AllOS-ENU.exe

setup.exe

Sage 200 System Administration

SAALauncher.exe.deploy

Sage 200 suite installer

aspnet_regiis.exe

Sage200API.exe

Sage200EBanking.exe

Sage200SelfService.exe

SSLCertificateUtil.exe

vcredist_x86.exe

Sage 200 CRM standalone

Sage.TaskLauncher.Listener.exe

TLService.exe

Sage 200 BI

BIEnableDisable.exe

IAEngineMakeRx.exe

RegisterXll.exe

Sage200BIAdminUtility.exe

ScheduledUpdateCubes.exe

Tools and SDK

AddOnViewExtender.exe

DataModelBuilder.exe

ModelExtensionPackager.exe

QueryEditor.exe

ReportReset.exe

Sage200ExceptionViewer.exe

Sage200OnlineMigrationTool.exe

Sage200WorkspaceConverter.exe

SageDataModelGenerator.exe

SageObjectStoreBuilder.exe

SageTransientDataModelGenerator.exe

SDBXPackager.exe

Minimum specifications for client and server machines

These are the **minimum** specifications for each client and server machine in a Sage 200 Professional deployment. Users with large databases or high numbers of concurrent users will require higher specifications.

Due to the wide variation of companies that use Sage 200, it is not possible to give exact specifications for each system. Factors such as the concurrent number of users, size of the database and estimated growth should all be taken into consideration when sizing a server.

When tasks are processed, CPU and memory resources are used on both the client and the server. Therefore, the specification of both machines will affect the overall performance of the system.

To make sure Sage 200 displays correctly:

- Check that your screen **Resolution** is set to the **recommended** setting for your display.

  To check this, open **Control Panel > Appearance and Personalization > Display > Screen Resolution**.

- Check that your text size is set to 100%.

  To check this, open **Control Panel > Appearance and Personalization > Display**, and ensure that the size is set to **Smaller - 100%**.

	Processor	Disk	Memory	Network
Sage 200 Server Sage 200 Server with Microsoft SQL Server	Dual-core 2.6GHz or equivalent	7,200 rpm SATA with 4GB disk space after SQL Server is installed.	4GB	Gigabit Ethernet
Sage 200 Client Client	Dual Core 1.6GHz or equivalent	7,200 rpm SATA with 500MB disk space required.	2GB	Gigabit Ethernet

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