## CTAS Minimum Computer Requirements
***** Microsoft ended support for Windows 8 and 8.1 on January 10, 2023.*****

*****CTAS 2024 will require a 64-bit Operating System, entities currently running a 32-bit operating system will need to update their operating system, if purchasing computers verify the operating system is a 64-bit.*****

| Operating System | Processor | Memory | Hard Disk | Security | Graphics Card | Display Resolution | .NET Version |
|---|---|---|---|---|---|---|---|
| **Minimum:** | | | | | | | |
| **Microsoft Windows 10** | 32-bit: 1 gigahertz (GHz) 64-bit: 1.4 gigahertz (GHz) | 32-bit: 1 gigabyte (GB) 64-bit: 2 gigabytes (GB) | 1 gigabyte (GB) of available space[1][2] | Not Required | DirectX 9 graphics device or later with WDDM 1.0 driver | 800x600 100% DPI Scaling | .NET Version 4.6.2 |
| **Windows 11** | 64-bit: 1 gigahertz (GHz) with two or more cores | 4 gigabyte (GB) | 64 GB | TPM version 2.0, UEFI firmware, Secure Boot capable | DirectX 12 or later with WDDM 2.0 driver | 800x600 100% DPI Scaling | .NET Version 4.6.2 |
| **Recommended:** | | | | | | | |
| Operating System | Processor | Memory | Hard Disk | Security | Graphics Card | Display Resolution | .NET Version |
| **Microsoft Windows 10** | More than 1.4 gigahertz (GHz) | More than 2 gigabytes (GB) | More than 1 gigabyte (GB) of available space depending on database size[1][2] | Not Required | DirectX 9 graphics device or later with WDDM 1.0 driver | 1024x768 100% DPI Scaling | .NET Version 4.6.2 |
| **Windows 11** | More than 1.4 gigahertz (GHz) | At least 4 gigabyte (GB) | at least 64GB of available storage | TPM version 2.0, UEFI firmware, Secure Boot capable | DirectX 12 graphics device or later with WDDM 2.0 driver | 1024x768 100% DPI Scaling | .NET Version 4.6.2 |

[1] Includes estimated hard disk space to install CTAS, SQL Server LocalDB, and Crystal Reports.

[2] Additional available disk space may be needed during installation.

**Any computer that meets the minimum requirements to run Microsoft Windows 10 or 11 should fulfill the minimum requirements to run CTAS. Other programs running on your computer should also be taken into consideration when looking at these requirements.**

The following links are to the system requirements for Microsoft operating systems and will take you to the Microsoft website.

| | |
|---|---|
| **Windows 10** | https://support.microsoft.com/en-us/help/4028142/windows-10-system-requirements |
| **Windows 11** | https://www.microsoft.com/en-us/windows/windows-11-specifications?r=1 |

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