# SedonaOffice Minimum Hardware & Software Requirements

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Below are the minimum SedonaOffice (and add-on modules) hardware & software requirements.

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**Sedona-X Mobile App**

**SedonaWeb 1.0**

**SedonaFSU (legacy)**


## SedonaOffice System Requirements

Basic Workstation:

- Intel or AMD CPU (Multi Core) 2.0 GHz+ (example: Intel® Core™ i5-4430 Processor)
- Windows 8, Windows 8.1 or Windows 10,
- 4 Gig of Ram
- Hard Drive 60Gb+ (minimum of 250megs free)
- Monitor capable of 1024 by 768 resolution
- 10/100/1000Mbs Network Card (TCP/IP)

Basic Server (Up to 20 Workstations*):

- Intel or AMD Server Class CPU (Multi Core) 2.0 GHz+ (example: Intel® Xeon® Processor E5-4603)
- Microsoft Windows 2012, 2012 R2, 2016, 2019 & 2022 Server Standard x64
- SQL 2012, 2014, 2016 or 2019 Standard x64
- 8+ Gigs of Ram
- Raid 1 (or better) Hard Drive for Operating System (+120GB)
- Raid 1 (or better) Hard Drive for Databases (+160GB)
- 10/100/1000Mbs Network Card (TCP/IP)

Advanced Server (21 to 50 Workstations*):

- Intel or AMD Server Class CPU (Multi Core) 2.4 GHz+ (example: Intel® Xeon® Processor E5-4640)
- Microsoft Windows 2012, 2012 R2, 2016, 2019 & 2022 Server Standard x64
- SQL 2012, 2014, 2016 or 2019 Standard x64
- 16+ Gigs of Ram
- Raid 1 (or better) Hard Drive for Operating System (+120GB)
- Raid 5 (or better) Hard Drive for Databases (+300GB)
- 10/100/1000Mbs Network Card (TCP/IP)

Enterprise Server (51 to 100+ Workstations **):

- Dual Intel or AMD Server Class CPUs (Multi Core) 3.0 GHz+ (example: Intel® Xeon® Processor E5-1680 v3)
- Microsoft Windows 2012, 2012 R22016, 2019 & 2022 Server Standard x64
- SQL 2012, 2014, 2016 or 2019 Standard x64
- 24+ Gigs of Ram
- Raid 1 (or better) Hard Drive for Operating System (+120GB)
- Raid 5 (or better) Hard Drive for Database (+300GB)
- 10/100/1000Mbs Network Card (TCP/IP)

* These recommendations should be used as a basis when purchasing equipment. Similarly configured hardware is known to be currently running SedonaOffice under listed user loads. As long as your server meets or exceeds Microsoft's recommended minimum requirements to run the latest SQL Server, then you will be able to run SedonaOffice. Failure to follow these recommendations could result in SQL performance that does not meet expectations. If you have questions regarding hardware configuration, please feel free to contact our support department before purchasing.

SedonaOffice uses a 'Client /Server' architecture (also called Fat, Thick or Heavy Client). Due to the network requirements of the SedonaOffice client (~20Mb per client, TCP/IP ports 1433/4992, Named Pipes, latency <100ms to the SQL Server), direct operation of the application is NOT supported over ANY type of VPN. This includes web-based services like Amazon AWS and Microsoft Azure. The workstation(s) must be on the same local network as the SQL Server.

** Configurations supporting 100 or more workstations should consider the Enterprise editions of both SQL and OS. Additional Notes: Terminal Services / Remote Desktop Services (installed on the same network as the SQL Server) are the only supported and recommended way to access SedonaOffice remotely.

## SedonaOffice SQL Server Requirements

- SQL 2012, 2014, 2016 and 2019 Standard Edition or better (x64)
- Windows 2012 Server Standard (or newer)
- MUST be installed as the 'DEFAULT' instance of SQL
- MUST use 'Mixed Mode' security
- Firewalls MUST have ports 1433 and 4992 (TCP and UDP) open
- Virtual Machines: best practice includes I-SCSI or similar direct hard drive access

"Can I run SQL / SedonaOffice on a Virtual Machine?"

Yes, if you plan accordingly. SQL Server relies heavily on hard drive access and virtual machines are notorious for slow drive performance. Luckily, most virtual machine vendors have special drive interfaces that allow you to access a physical hard drive instead of a virtual one. Microsoft's Hyper-V uses a direct drive access technology called 'I-SCSI', other VM vendors may use different names but the end results are the same, the VM needs direct 'physical' hard drive access. We have done extensive testing of SQL Server 2005 to 2019 in virtual environments and SedonaOffice performs brilliantly, provided we take proper care to choose the proper hard drive arrangements. Tested Virtual Platforms include (but not limited to): Hyper-V, ESX, ESXi, V-Sphere, XEN, Virtual Box

NOTE: Configurations supporting 100 or more workstations should consider the Enterprise editions of SQL and OS.

# Add-on Applications

## SedonaWeb System Requirements

- Microsoft Server 2012, 2012 R2 2016, 2019 & 2022 Web Edition or better
- Internet Information Server (IIS) 7 or better
- .Net 4
- 50MB available hard drive space
- Open TCP port 1433 between the IIS Server and primary SQL Server
- Open TCP port 443 (port 80 optional) to the public internet
- Static public IP address tied to DNS entry
- Public DNS entry for SedonaWeb (example sedonaweb.yourdomian.com)
- SSL Certificate from a public Certificate provider (example GoDaddy or Verisign) that matches your DNS entry

**Special Configuration Considerations:** SedonaWeb is designed to be accessible from the general internet. It is not recommended you run SedonaWeb on your SQL Server, but on a dedicated standalone server. SedonaWeb and BoldNet can be installed on the same server as long as the server runs IIS 7 (or better). SedonaWeb will not run under a sub folder of an existing site, please plan on dedicating a site, IP address and host header binding strictly for SedonaWeb. SedonaWeb is a one to one binding to pre-configured SedonaOffice company. If you plan on publishing more than one SedonaOffice company online.

# SedonaDocs System Requirements

- SedonaDocs can be run on (and it is recommended) the same SQL Server as the primary databases.
- You should have a minimum of 250GB's of free hard drive space available to allow database growth.
- SedonaDocs can be hosted on a separate server if you chose, as long as that server has SQL Server installed.
- You must have SQL 2012 or newer to use SedonaDocs

**Workstations**

- Any workstation with SedonaOffice installed can access SedonaDocs.
- The workstation must have compatible viewers for any format that documents are to be saved in. Examples include MS Word, Adobe Reader, Paintshop, etc.
- The C++ 2010 Runtimes and .Net 4 (available through the SedonaOffice Client tools) are required to use direct document scanning. Scanners
- For direct document scanning, any TWAIN or WIA based scanner with a USB interface 'should' work with SedonaDocs.

- Network bases and non-compliant scanners may not work and are not officially supported.
- Fijitsu 'SnapScan' scanners are known NOT to work with SedonaDocs.
- HP Office Jet PRO 8600 scanners are known NOT to work with SedonaDocs.
- As common scanner protocols are difficult to narrow down, we cannot absolutely guarantee any scanners compatibility.
- Known compatible devices include HP 5590, HP 6600, HP 4500, Kodak i1120, Kodak i2400 and Epson Office USB based scanners SedonaOffice

Terminal Servers Note: the following is not applicable to SedonaCloud customers.

- RDP protocols do not natively support scanners, so to use scanners across a remote desktop session you will need to look into 3rd party controls designed to map scanners. USB for Remote Desktop has been shown to work (http://www. usb-over-network.com/usb-for-remote-desktop.html) but this is not the only available product.
- For Terminal Users to open documents, the appropriate viewer is required to be installed on the server. Example, if a client tried to open a .pdf file, then a .pdf view

# SedonaSync System Requirements

## Supported Platforms

The supported platforms for the SedonaSync Server are shown. These are installed by the end user:

- Windows Server 2012 R2, 2016, 2019, or 2022 Windows Workstation 8, 8.1 or 10 (A Server OS is recommended)
- Web server: IIS
- Database Server: Microsoft SQL Server 2012, 2014, 2016, or 2017 (Express, Standard, and Enterprise editions)
- Web Browser: Chrome (version 45 or higher), Microsoft Edge
- Clients (SedonaSync users) will access SedonaSync via a web browser from their workstations. Supported web browsers are Google Chrome (version 45 or higher) and Microsoft Edge.

These are installed by SedonaSync:

- Crystal Reports: Crystal Reports Runtime 13.0.20
- WinWrap Basic

## IIS

The IIS components listed below satisfy the minimum requirements to run the SedonaSync web application. If other IIS components are enabled, they do not need to be removed.

| Web Server | Management Tools |
| --- | --- |

| | |
|---|---|
| • Common HTTP Features<br>  ◦ Default Document<br>  ◦ Static Content<br>• Security<br>  ◦ Request Filtering<br>  ◦ Basic Authentication<br>  ◦ Windows Authentication<br>• Application Development<br>  ◦ .NET Extensibility 4.6<br>  ◦ .NET Extensibility<br>  ◦ ASP.NET 4.6<br>  ◦ ASP.NET<br>  ◦ ISAPI Extenstions<br>  ◦ ISAPI Filters | • IIS Management Console<br>• IIS 6 Management Compatibility<br>  ◦ IIS 6 Metabase Compatibility<br>• IIS Management Scripts and Tools<br>• Management Service |

## SQL Server

You must have access to Microsoft SQL Server on either your local computer, network, or hosted service.

If using a separate web server (machine hosting IIS) and application server (machine where SedonaSync service is installed), both must have the SQL Server Client installed.

## Crystal Reports

SedonaSync V10 requires and will install Crystal Reports Runtime 13.0.20 to render Crystal Reports. However, if there is already an existing version of the Crystal Reports runtime on the machine, the SedonaSync installer will not prompt to install version 13.0.20. This could cause issues generating reports through SedonaSync. The recommended configuration in this case is to install SedonaSync on a separate server.

## WinWrap

WinWrap is the scripting engine used by SedonaSync V10. This product uses WinWrap® Basic, Copyright 1993-2017 Polar Engineering, Inc., http://www.winwrap.com/.

# REST API & SedonaWeb 2.0

Requires SedonaOffice version 6.2.0.19 or above.

System Requirements:

- Windows Server running 2012 R2 and IIS 8.5 or higher and .NET 4.8.
- Install .Net Core Hosting Bundle 2.0 (.Net Core Runtime)https://dotnet.microsoft.com/download/thank-you/dotnet-runtime-2.0.9-windows- hosting-bundle-installer.
- .NET Framework 4.8 automatically uses TLS 1.2. TLS 1.2 must be the only TLS version Enabled in the Registry. TLS 1.0 and TLS 1.1 must be disabled. Verify that they are disabled and that TLS 1.2 is enabled.

Install Redis for windows:

- https://github.com/MicrosoftArchive/redis/releases/download/win-3.2.100/Redis- x64-3.2.100.msi
- Domain User that can Access Sql as a SysAdmin
- Set up a placeholder IIS site with bindings to the DNS that is accessible to the internet.
- Open TCP port 1433 between the IIS Server and primary SQL Server
- Open TCP port 443 to the public internet
- Static public IP address tied to DNS entry
- Public DNS entry for SedonaAPI (example yournewdomian.com)
- SSL Certificate from a public Certificate provider. Or use https://www.sslforfree.com to generate a free SSL.

## Sedona-X Mobile App System Requirements

Prerequisites

- SedonaOffice Version 6.1.0.55
- SedonaLimited API Version 1.25.X
- Server is on Microsoft .Net 4.6.1

Hardware

- Android
- iOS

OS

- Android 4.4 or above
- iOS 8 or above

## SedonaWeb 1.0

- Microsoft Server 2008, 2008 R2, 2012 or 2012 R2 Web Edition or better
- Internet Information Server (IIS) 7 or better
- .Net 4
- 50MB available hard drive space
- Open TCP port 1433 between the IIS Server and primary SQL Server
- Open TCP port 443 (port 80 optional) to the public internet
- Static public IP address tied to DNS entry
- Public DNS entry for SedonaWeb (example sedonaweb.yourdomian.com)
- SSL Certificate from a public Certificate provider (example GoDaddy or Verisign) that matches your DNS entry

Special Configuration Considerations: SedonaWeb is designed to be accessible from the general internet. It is not recommend you run SedonaWeb on your SQL Server, but on a dedicated stand alone server. SedonaWeb and BoldNet can be installed on the same server as long as the server runs IIS 7. SedonaWeb will not run under a sub folder of an existing site, please plan on dedicating a site, IP address and host header binding strictly for SedonaWeb.

You MUST have your public IP address routed to the IIS Server and DNS Entries in place prior to installation.

SedonaWeb is a one to one binding to pre-configured SedonaOffice company. If you plan on publishing more then one SedonaOffice company online the you must have IP addresses, SSL Certificates and DNS Entries for each company.

Hosting for SedonaWeb on our servers is available at an additional charge, please contact sales@boldgroup for more information.

## SedonaFSU (Legacy)

DUE TO MICROSOFT DISCONTINUING SUPPORT FOR SILVERLIGHT, ACCESS TO THE TECHNICIAN MANAGEMENT TOOL MAY NO LONGER BE AVAILABLE.

- SedonaFSU uses a direct SSL connection between our IIS Server Cluster and your SQL Server via a static VPN connection.
- Your SQL Server requires the ability to communicate outbound to IP 173.200.233.250 port 1194 via UDP.
- The connection uses a product called OpenVPN to create the data connection between your SQL Server and our IIS hosting facility. More information on OpenVPN can be found here: http://openvpn.net/index.php/open-source/overview.html
- Our implementation of OpenVPN uses a TLS SSL/TLS + certificates (2056k in length) for authentication / key exchange and generated to be valid only on your server.
- The connection is started (and run as a service to maintain 24/7 connectivity) from your SQL Server, most firewalls will allow this to pass through without additional configuration on your part.
- Bandwidth requirements are small, only about 2k per SedonaFSU user while retrieving information.
- The SedonaFSU client to IIS Server connection is locked with our SSL Certificate.
- Credit card acceptance, when implemented, will use a direct IIS via SSL to ACH Direct method so sensitive information is never transmitted to your SQL Server, only tokens.
- All other information required is transmitted directly from your SQL Server to our IIS Servers then out to your FSU devices via a Silverlight application built into a web page.
- Security arrangements available upon request.
- SedonaFSU is built using Microsoft Silverlight, any browser that supports Silverlight should have the ability to run SedonaFSU. If Silverlight is not found on the netbook, notebook or tablet it will ask the user to download and install it before proceeding.

### Silverlight Compatibility

To date we have tested SedonaFSU using the following OS's and Browsers:

- Internet Explorer 9, 10 and 11 (Windows)
- Firefox (Windows)
- Safari (OSX)
- **Google Chrome (Windows and OSX) is NOT supported**

Devices known to be running SedonaFSU in the field include (but not limited to):

- Dell Duo
- Dell SC Tablet
- Acer Icona
- Motion Computing CL-900
- HP Slate

As long as the device runs Windows Windows 7,8 or 10 then SedonaFSU should be compatible.

Non compatible OS's:

- Android
- Symbian

These OS's do NOT support Silverlight at this time. If these manufactures decide to 'officially' support Silverlight in the future, it may be possible to use SedonaFSU on these devices.