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# Hardware and Software Minimum Requirements

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## Overview

Vertex Software enables the sharing of patient health information (PHI) through media production and cross-community sending. This document is only a guide. Minimum requirements can vary based on how Vertex is used. Please contact Sorna Technical Services for additional guidance.

## Service Host Requirements

Vertex is a Server/Client (Workstation) model. The two components reside together; with the option of Remote Click-Once Workstation deployment. When inclusive, the below requirements take precedence.

### 1. Network Infrastructure

- Static or DHCP-Reserved IP address.
- 1 Gbit connectivity with configured devices (PACS, Workstations, Modalities, etc).
- Firewall hardware/software, Access Control Lists, etc. must permit communication between Vertex and PACS, modalities, Clouds, remote autoloaders, and remote Vertex Workstations, etc.
- AE Titles, TCP/IP addresses/host names, and ports must be configured to allow communication with Vertex.
- Communication on ports 80, 5000 and 5001 must be permitted for Remote Workstations.

### 2. Supported Operating Systems

- Windows 7, 8, 8.1, and 10 Professional 64bit
- Windows Server 2008 R2, 2012, 2012 R2, and 2016.
- Vertex is not supported on Mac systems

### 3. Hardware Requirements

- Processor: i5-quad core (or better)
- 8 GB RAM
- Boot Partition Minimum Free Space: 10GB
- Secondary Partition Free Space (recommended): 50GB
- 1 Gbit NIC

### 4. Virtualization Requirement

- Virtual Machine Minimum Environment Requirements mirror those of Physical Hardware.
- Based on volume, remotely connected Autoloaders may require elevated network bandwidth.
- Appropriate priority within the VM cluster must be provided.

### 5. Product Configuration

- The user account installing Vertex must have Local Admin rights for the target PC.
- Anti-virus software should be disabled for the duration of the install. This software can be re-enabled, with exceptions, once software installation is completed.
- Directories shared during installation (D:\Vertex) should be excluded from Antivirus scans. Scanning these locations may cause a notable performance change.
- Once the software is installed, the “VertexService” needs to operate with either Admin privileges, or specific rights must be granted to various resources (File shares, ports, etc).

### 6. Software Prerequisites

- IIS will be configured during installation.
- The installer package includes, as required: .NET 4.6.2, Windows installer 4.5, and SQL Server 2012 SP4 (Community Edition).

## Workstation Requirements

Vertex Workstation Requirements can vary greatly based on the intended uses.

### 1. Network Infrastructure

- Firewall hardware/software, Access Control Lists, etc. must permit communication between the Vertex Host and any remote Vertex Workstations on ports 80, 5000, and 5001.
- 1 Gbit connectivity to the Vertex Host \*

### 2. Supported Operating Systems and Software Prerequisites

- Windows 7, 8, 8.1, and 10 Professional 32bit and 64bit \*\*
- Vertex is not supported on Mac systems
- .NET 4.6.2, or newer.

### 3. Hardware Requirements

- Processor: i3, or higher \*\*
- 4 GB RAM (8GB may be required, depending on intended uses) \*\*
- 200 MB free space (10GB recommended for Workstation Importing/Exporting)
- 1 Gbit NIC \*

\*Certain capabilities of Vertex may not require a 1Gib connection, however, lower bandwidth networks will experience performance deterioration when exercising higher data-flow functions, such as DISC Importing.

\*\*32bit Workstation with an i3 CPU and 4GB RAM may be acceptable for many basic functions.