

Installation Requirements

This section describes the requirements for hardware, operating system software and system configuration prior to installing PowerSCADA Expert 8.2 with Advanced Reporting and Dashboards and any of its components.

These requirements will vary subject to the components of PowerSCADA Expert 8.2 with Advanced Reporting and Dashboards that you intend to install on any computer. Refer to *System Hardware* on page 10 and *System Software* on page 11 to determine the components that you want to install. These sections identify the basic hardware and system software requirements, as well as requirements specific to each particular component.

Before you begin to install PowerSCADA Expert 8.2 with Advanced Reporting and Dashboards, it is important that you install the latest updates from Microsoft® for your operating system and system software. Also see the Operating System Matrix that shows the operating systems that are compatible with various versions of PowerSCADA Expert.

System Hardware

NOTE: The minimum and recommended hardware requirements have changed in this release. Upgrading customers should load test their system as part of their upgrade procedure to ensure that the hardware in use is adequate for the needs of their system.

The following tables list the computer hardware requirements for the PowerSCADA Expert “All Core Components” installation and all optional components.

Description	Minimum Specifications
Processor	Intel Pentium
Processor Speed	4 cores @ 2.0 GHz for a server or 2 cores @ 3.0 GHz for Clients
Random Access Memory (RAM)	8GB for Servers 4GB for Clients
Network Speed	1GB
Available Disk Space	100GB
Graphics Adaptor	1024 x 768 pixel resolution, with 128MB of VRAM.

NOTE: In PowerSCADA Expert, we recommend that you set screen resolution at 1024 by 768 pixels or higher.

NOTE: In PowerSCADA Expert, you need to increase system resources (both memory and number of available cores) in the following circumstances:

- When running a large number of tags on a server (> 100,000)
- When running multiple clusters on the same machine
- Your system has a high rate of change of data (either IO or alarms)
- Your graphics pages contain a large number of alarm count calls (more than 500 per page).

System Software

The following table indicates the system software that is needed on any computer onto which you want to install the PowerSCADA Expert All Core Components installation and all optional components. Note that there is an operating system matrix table that follows. It shows the operating system compatibility for each version of PowerSCADA Expert.

Product Name	Minimum System Software
All Core Components	<p>Operating System</p> <p>Windows 8 or Windows Server 2012 R2 or Windows 7 with Service Pack 1 (32 Bit and 64 Bit) or Windows Server 2008 R2 with Service Pack 1 (32 Bit and 64 Bit) Microsoft .NET Framework 4.6.1 (installed with PowerSCADA Expert if not already installed). Microsoft .NET Framework 4.6.1 is required by "Schneider Electric License Manager" and "Schneider Electric Software Update" if using Windows Server 2012. Internet Explorer Version 9.0 or greater.</p> <ul style="list-style-type: none"> - Windows 7, 32- and 64-bit: Internet Explorer version 11 - Windows 8, 32- and 64-bit, Internet Explorer version 10 - Windows 2008 R2 SP1, Internet Explorer version 11 - Windows Server 2012, Internet Explorer version 10 <p>A Local Area Network (LAN) if you want to have multiple clients access a remote server.</p> <p>If running under virtualization with VMWare, the minimum system requirement is VMWorkstation 6.03 and later.</p>
Schneider Electric License Manager	As for All Core Components.
PowerSCADA Expert web server	As for All Core Components with the addition of a LAN running TCP/IP and Microsoft Internet Information Services (IIS). See Microsoft ISS on the next table.
PowerSCADA Expert web client	Internet Explorer version 8 or greater (32-bit only)
Product Documentation	As for All Core Components
Project DBF Add-in for Excel	As for All Core Components, and Microsoft Excel 2007 or later. Microsoft Excel 2013 (32-bit only)

Note: Use an NTFS file system on the target drive for the Web Server software, otherwise you won't have effective access to the necessary Windows security settings (that is, the Folder Properties dialog will not have a Security tab). If you are currently using a FAT/FAT32 system, convert the drive to NTFS before installing the Web Server software.

Operating System Matrix

	PowerSCADA Expert Version			
	8.2 ¹	8.1/ 8.0 SR1 ¹	7.40	7.30
Windows Server 2016	X	O	O	O
Windows 10	X	X ²	O	O

	PowerSCADA Expert Version			
	8.2 ¹	8.1/ 8.0 SR1 ¹	7.40	7.30
Windows Server 2012 R2	X	X	O	X ³
Windows 8.1	X	X	O	X ³
Windows Server 2012	X	X	X	X
Windows 8	X	X	X	X
Windows Server 2008 R2	X	X	X	X
Windows 7	X	X	X	X
Windows Server 2008	O	X	X	X
Windows Vista	O	O	X	X

X = supported

O = not supported

Notes:

1: PowerSCADA Expert 8.2 = Citect 2016;

PowerSCADA Expert 8.1 and 8.0 SR1 = Citect 2015.

2: CitectSCADA 2015 Service Pack 1 must be installed for Windows 10 compatibility.

3: CitectSCADA 7.30 Service Pack 1 must be installed for Windows 8 and Windows Server 2012 compatibility.

IIS Requirements for PowerSCADA Expert 8.2 with Advanced Reporting and Dashboards

The PowerSCADA Expert installer enables the IIS versions/features automatically:

Operating System	IIS Version
Windows Server 2012 R2	8.5
Windows 8.1	8.5
Windows Server 2012	8.0
Windows Server 2008 R2 SP1	7.5 (You need to enable this on Windows features.)

IIS Component	Features to Enable
Management Tools	IIS Management Console IIS6 Management Compatibility —IIS6 Metabase and IIS6 Configuration compatibility IIS Management Services
Application Development	ASP ISAPI Extensions
Security	Request filtering Windows Authentication