

# Autodesk® AutoCAD® 2019 Including Specialized Toolsets

## System Requirements

### Supported operating systems

- Microsoft® Windows® 7 SP1 with KB4019990 (32-bit & 64-bit)
- Microsoft® Windows® 8.1 with Update KB2919355 (32-bit & 64-bit)
- Microsoft® Windows® 10 Anniversary Update (64-bit only) (version 1607 or higher)

### Browser

- Chrome

### Processor

#### Basic

- 2.5-2.9 GHz processor

#### Recommended

- 3+ GHz processor

### Network

Deployment via Deployment Wizard.

The license server and all workstations that will run applications dependent on network licensing must run TCP/IP protocol.

Either Microsoft® or Novell TCP/IP protocol stacks are acceptable. Primary login on workstations may be Netware or Windows.

In addition to operating systems supported for the application, the license server will run on the Windows Server® 2012, Windows Server 2012 R2, Windows Server 2008, Windows 2008 R2 Server editions.

Citrix® XenApp™ 7.6, Citrix® XenDesktop™ 7.6

### Hardware

#### Memory

##### Basic

- 8 GB

##### Recommended

- 16 GB

#### Display resolution

Conventional Displays:

1920x1080 with True Color

High Resolution & 4K Displays:

Resolutions up to 3840x2160 supported on Windows 10, 64 bit systems (with capable display card)

### Hardware (continued)

#### Disk space

6.0 GB

#### Pointing device

MS-Mouse compliant

#### Multiple processors

Should be supported by the application

#### Display card

##### Basic

- 1 GB GPU with 29 GB/s Bandwidth and DirectX11 compliant

##### Recommended

- 4 GB GPU with 106 GB/s Bandwidth and DirectX11 compliant

#### Plotter/Printer

Continued system printer and HDI support

#### Compiler

Visual Studio 2017 with Update 2

#### Installer

MSI 5.0

#### Builds

Locked-FLEXnet

#### Locking/License management

FLEXnet & Autodesk Licensing Service will be used for both the stand-alone and networked versions

#### Side-by-side install

Supported

#### Additional requirements for large datasets, point clouds, and 3D modeling

- 8 GB RAM or more
- 6 GB free hard disk available not including installation requirements
- 1920x1080 or greater True color video display adapter; 128 MB VRAM or greater, Pixel Shader 3.0 or greater, Direct3D® capable workstation class graphics card.

Please note: 64-bit Operating Systems are recommended if you are working with Large Datasets, Point Clouds and 3D Modeling and required if you are using Model Documentation or Point Clouds. Please refer to the AutoCAD 64-bit System Requirements for more information.

## Software

### Languages

English, French, Italian, German, Spanish, Portuguese, Japanese, Korean, Traditional Chinese, Simplified Chinese, Czech, Polish, Hungarian, Russian

### File format changes

No

### Save as support

AutoCAD R14, AutoCAD 2000, AutoCAD 2004, AutoCAD 2007, AutoCAD 2010, AutoCAD 2013, AutoCAD 2018. EMR has the same formats as Commercial AutoCAD, with the exception of AutoCAD 2000/LT2000 Drawing

### DXF support

AutoCAD R12, AutoCAD 2000, AutoCAD 2004, AutoCAD 2007, AutoCAD 2010, AutoCAD 2013, AutoCAD 2018

### Binary vs. source

ARX: Yes

LISP: Yes

.net: Yes

Javascript: Yes

### Script compatibility

Yes

### Security (DWG)

Supports digital signatures.

### Drawing size support

Full DWG compression

### Object interoperability (non-ACAD object model)

New objects may require new enablers.

### .NET Framework

.NET Framework Version 4.7

\*DirectX11 recommended by supported OS

## Specialized Toolsets

Toolset	Additional Requirements
Plant 3D	<ul style="list-style-type: none"> <li>• Disk Space: 8GB</li> <li>• 64-Bit OS Only</li> </ul>
Map 3D	<ul style="list-style-type: none"> <li>• Disk Space: 16GB</li> <li>• Memory: 16GB</li> <li>• 64-Bit OS Only</li> <li>• Database &amp; FDO Requirements (see below)</li> </ul>
Architecture	Disk Space: 10GB
Electrical	Disk Space: 12GB
MEP	Disk Space: 12GB
Mechanical	No additional requirements
Raster Design	No additional requirements

## Map 3D Additional Requirements

FDO Provider Requirements		
FDO Provider	Certified With	Notes
Microsoft SQL Server	Microsoft® SQL Server® 2008 R2 Standard and Enterprise Editions; Microsoft SQL Server 2012 Standard and Enterprise Editions; Microsoft SQL Server 2014 Standard and Enterprise Editions; Microsoft SQL Server 2016 Standard and Enterprise Editions	Industry Models also support the versions of Microsoft SQL Server listed on the left.
Oracle 11g Release 2	Oracle 11.2.0.4.0 Oracle Express, Standard, and Enterprise Editions	Industry Models support Standard and Enterprise Editions of this Oracle version.
Oracle 12c Release 1	Oracle 12.1.0.1.0 Oracle 12.1.0.2.0	Industry Models support Standard and Enterprise Editions of this Oracle version.
Raster	DEM, JPG2K, DTED, MrSID®, ECW, PNG, ESRI® Grid, TIFF, JPEG, ESTRI, ASCII	Not supported on Linux
Autodesk SDF	3.0	
ESRI ArcSDE	ArcSDE® 9.3 SP1 ArcSDE 10.2	This Provider requires ESRI licensed components to be installed on client system. Required components depend on the type of connection (SDE Service or Direct Connect)
ESRI ArcGIS	ARCGIS® 10.4 ARCGIS 10.3.1 ARCGIS 10.3 ARCGIS 10.2	This Provider requires ESRI licensed components to be installed on client system.
MySQL	5.7	
ODBC	The FDO ODBC provider has been tested with corresponding versions of ODBC drivers that are shipped with the relevant supported operating systems version.	
OGC WMS	WMS 13.0	
OGC WFS	WFS 2.0.0	
SQLite	SQLite 3.6	
PostgreSQL	PostgreSQL 9.5 + PostGIS 2.2	

ODBC Drivers	Tested Versions
Microsoft® Access® Driver (*.mdb, *.acdb)	Microsoft Access database engine 2010 (English) 14.00.4760.1000
Microsoft® Excel® Driver (*.xls, *.xlsx, *.xlsm, *.xlsb)	Microsoft Access database engine 2010 (English) 14.00.4760.1000
MySQL® ODBC 5.3 Driver	5.03.07.00
SQL Server®	10.00.10240.16384
Oracle® in OraClient12Home1	12.01.00.01