



Adept

SYSTEM REQUIREMENTS

FALL '23 (Version 11.2.0)

Synergis 
Software

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ADEPT SYSTEM REQUIREMENTS – Document version 2023-11-02

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OVERVIEW

To successfully install and run Adept Servers and Clients for the FALL 2023 (11.2) release, please follow the system requirements specified herein.

A functionally complete Adept server-side installation requires the Adept Native Server, the Adept Web Server, an Adept Database instance, and at least one of the three supported means of vaulting files.

The Adept Desktop Client must be installed on the Adept Native Server and one or more other computers to provide access to System Administrator functionality. Additional Desktop, CAD Integrations, Web, and Mobile Clients may be part of a complete Adept environment.

Processor requirements in subsequent sections will list “Basic” and “Recommended” clock speeds. We strongly encourage customers to use hardware that meets or exceeds the recommendation for optimum performance; a sandbox environment or otherwise lightly used environment may be performant with the “Basic” clock speeds.

DISCONTINUED SUPPORT FOR VERSION 11.2

This is a reminder that the following products or components were no longer supported beginning with previous release Adept 11.1. Please see subsequent sections for the currently supported products and components.

Discontinued Adept CAD Integrations:

- AutoCAD 2021 complete integration discontinued; extraction remains supported.
- Inventor 2021 complete integration discontinued; extraction remains supported.
- Navisworks 2021 complete integration discontinued; extraction remains supported.

Discontinued Adept Server Components:

- Windows Server 2016 v1607 operating system

Discontinued Adept Database Engine Components:

- Microsoft SQL Server 2014 v12.0

ADEPT SERVERS

Adept Server requirements and recommendations will depend on your scope and use of Adept. Virtual machine platforms are supported if the system requirements for Adept are met or exceeded.

For many customers, the Adept Native Server, the Adept File System, and the Adept Web Server software can be run on the same server. This is referred to as a Single Server environment. Hardware requirements are cumulative for this environment, resulting in higher requirements than stated for each individual component described below. The hardware specifications below will apply to customers who choose a Distributed Server environment, where servers are spread across physical or virtual machines.

In instances where the Adept Servers (Native, File, and Web) and the database engine server software do not reside on the same machine, it will be essential to have high-speed connectivity between the servers due to the high number of transactions between the Adept Servers and the Database Engine. The Adept Servers and the SQL Database Engine take advantage of CPU threading technology, so you can expect increased performance with multiple CPUs, hyper-threaded CPUs, or both.

The Adept Server Software is not supported when deployed on a machine also running Microsoft Exchange Server, nor is it supported when installed on a primary or backup Domain Controller. Adept may experience performance degradation when the Adept Server Software and the Database Engine are not on the same local area network segment.

Synergis recommends a separate logical partition to separate data storage and installed software for all Adept Servers from the operating system. For example, a typical C: drive of roughly 100 GB for the operating system and a discrete D: drive of roughly 150 GB for all Adept components and adequate space for vaulted data. The best practice is to plan for 20% to 25% growth in data over time.

Disk Space Considerations – The following item will be stored on the designated servers. Please plan disk sizing accordingly.

All Servers – Log files, configurations, and temporary files

File Server – Vaulted documents including historical versions ⁽¹⁾

Web Server – Full Text Search cache data ⁽¹⁾

Web Server – Native/PDF documents & Stream Data (Viewer Caches) for Explorer/Reviewer users ⁽²⁾

Web Server – PDF documents (Mobile Markups) for Mobile users ⁽¹⁾

Database Server – Active ⁽¹⁾ & Archive ⁽¹⁾⁽³⁾ Databases and their backups

Database Server – SQL Transaction Logs for all Adept databases ⁽⁴⁾

(1) These items should be backed up regularly.

(2) Viewing of Inventor IDW and SOLIDWORKS SLDDRW files will require significant disk space.

(3) The optional Archive Database stores Audit Trail records.

(4) These logs can grow very large and require periodic maintenance.

ADEPT NATIVE SERVER - HARDWARE REQUIREMENTS

Note: No changes from Adept 11.1.0.

Processor	Basic: 2.5–2.9 GHz processor with 4 or more cores Recommended: 3+ GHz processor with 4 or more cores Single-Server environment: 3+ GHz processor with more than 4 cores ⁽¹⁾
Memory	Distributed Server environment: 32 GB Single-Server environment: 64 GB ⁽¹⁾
Disk Space	3 GB for Native Server installation. Sufficient storage for initial document load and planned growth. ⁽²⁾ Minimal storage for Adept Log files, etc.

(1) Please discuss specific requirements for a Single Server environment with your Synergis Account Manager. This does not include requirements for the database engine if installed on the same server.

(2) Presumes one or more Adept Vaults reside on the Adept Native Server.

ADEPT NATIVE SERVER - SOFTWARE REQUIREMENTS

Note: No changes from Adept 11.1.0.

Operating Systems	Windows Server 2019 ⁽¹⁾ Windows Server 2022 ⁽¹⁾
Microsoft .NET Framework	.NET Framework 4.8 ⁽²⁾
Microsoft Visual C++ Runtimes	Visual C++ 2015-2019 Redistributable (x86 & x64) ⁽²⁾

(1) The latest service packs and hotfixes must be installed.

(2) Included in the Adept Installation. Windows Update may install higher compatible versions that are in the same major version. For instance, Visual C++ 2015-2022 Redistributable is a compatible version with the listed requirement.

ADEPT FILE SYSTEM SERVER - HARDWARE REQUIREMENTS

Note: No changes from Adept 11.1.0.

The following apply only when installing Adept File System (AFS) separately from the Adept Native Server as may be the case with an AFS Satellite Server.

Processor	Basic: 2.5–2.9 GHz processor with 4 or more cores Recommended: 3+ GHz processor with 4 or more cores
Memory	Distributed Server environment: 8 GB Large System ⁽¹⁾ : 16 GB
Disk Space	1 GB for Adept File System Server installation. Sufficient storage for initial document load and planned growth. Minimal storage for Adept Log files, etc.

(1) More than 50 concurrent users and/or multiple remote sites are generally considered a large Adept installation.

ADEPT FILE SYSTEM SERVER - SOFTWARE REQUIREMENTS

Note: No changes from Adept 11.1.0.

Operating Systems	Windows Server 2019 ⁽¹⁾ Windows Server 2022 ⁽¹⁾
Microsoft .NET Framework	.NET Framework 4.8 ⁽²⁾
Microsoft Visual C++ Runtimes	Visual C++ 2015-2019 Redistributable (x86 & x64) ⁽²⁾

(1) The latest service packs and hotfixes must be installed.

(2) Included in the Adept Installation. Windows Update may install higher compatible versions that are in the same major version. For instance, Visual C++ 2015-2022 Redistributable is a compatible version with the listed requirement.

ADEPT WEB SERVER - HARDWARE REQUIREMENTS

Note: No changes from Adept 11.1.0.

If installed on a Single Server environment, see the Adept Native Server requirements above.

Processor	Basic: 2.5–2.9 GHz processor with 4 or more cores Recommended: 3+ GHz processor with 4 or more cores
Memory	Distributed Server environment: 32 GB Large System ⁽¹⁾ : 48 GB
Disk Space	13 GB for Web Server installation.

(1) More than 50 concurrent users and/or multiple remote sites are generally considered a large Adept installation.

ADEPT WEB SERVER - SOFTWARE REQUIREMENTS

Note: No changes from Adept 11.1.0.

Operating Systems	Windows Server 2019 ⁽¹⁾ Windows Server 2022 ⁽¹⁾
Microsoft Internet Information Services (IIS)	IIS Application Request Routing Extension v3.0.1988 ⁽²⁾ IIS Rewrite Extension v7.2.1933 ⁽²⁾
Microsoft .NET Framework	.NET Framework 4.8 ⁽²⁾
Microsoft Visual C++ Runtimes	Visual C++ 2013 Redistributable (x86 & x64) ⁽²⁾ v12.0 or later Visual C++ 2015-2019 Redistributable (x86 & x64) ⁽²⁾
Microsoft .NET Core	.NET Core 6.0.11 Windows Server Hosting ⁽²⁾

(1) With the latest service packs and hotfixes installed.

(2) Included in the Adept Installation. Windows Update may install higher compatible versions that are in the same major version. For instance, Visual C++ 2015-2022 Redistributable and .NET Core 6.0.18 are compatible versions with the listed requirement.

SOFTWARE TO SUPPORT WEB-BASED VIEWING

Note: No changes from Adept 11.1.0.

The following applications must be installed (and may require licensing) on the Adept Web Server to support web-based server-side rendering of specific file types for Adept Reviewer and Adept Explorer licenses.

Microsoft Word	Word v16.0 (i.e., 2016 or later)
Microsoft Excel	Excel v16.0 (i.e., 2016 or later)
Dassault Systèmes SOLIDWORKS	eDrawings Publisher for SOLIDWORKS 2023
Autodesk Inventor	Inventor 2024 [unlicensed/read-only]

DATABASE SERVER - SOFTWARE REQUIREMENTS

Note: No changes from Adept 11.1.0.

Database Engine ⁽¹⁾	Microsoft SQL Server 2016 Microsoft SQL Server 2017 Microsoft SQL Server 2019 Oracle® Database 19c ⁽²⁾ Microsoft SQL Express ⁽³⁾
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- (1) Supported Database Engines may be installed on any compatible operating system allowed by the manufacturer. The latest service packs and hotfixes must be installed.
- (2) Before upgrading an Oracle database from 11g to 19c, ensure you have installed the latest 11g patch, 11.2.0.3. The database upgrade wizard in 19c will only proceed on a schema from a source database with 11g/11.2.0.3 installed.
- (3) SQL Express is supported in small deployments or local area network deployments provided the database size does not exceed the manufacturer's 10 GB database limit. Be aware the database size grows over time; if you choose SQL Express today, you may be required to upgrade to Microsoft SQL to avoid that database limit.

FTP SERVER - SOFTWARE REQUIREMENTS

Note: No changes from Adept 11.1.0.

This software is required only for systems with FTP Vaults. If you plan to use FTP Vaults, you will need to run an FTP Server on each network where a Vault is located.

FTP Server Software ⁽¹⁾	FileZilla Server ⁽²⁾⁽³⁾ CuteFTP Server ⁽²⁾ ServU Server ⁽²⁾ Microsoft IIS/FTP Services ⁽³⁾
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- (1) Supported FTP Server Software may be installed on any compatible operating system allowed by the manufacturer. The latest service packs and hotfixes must be installed.
- (2) Supports Adept's compressed FTP Vaults and file transfer.
- (3) Supports Adept's secure FTPS Vaults and file transfer.

ADEPT CLIENTS

Note: No changes from Adept 11.1.0.

The current Adept release does not provide support for Citrix-based installations of any Adept Clients. Please contact your Synergis Account Manager to express interest in Citrix compatibility.

Please discuss disk space requirements beyond installation for individual workstations with your Synergis Account Manager. Such requirements are not generally quantifiable.

ADEPT DESKTOP CLIENT WORKSTATION (NON-CAD) - HARDWARE REQUIREMENTS

Processor	Basic: 2.5–2.9 GHz processor with 4 or more cores Recommended: 3+ GHz processor with 4 or more cores
Memory	16 GB
Disk Space	8 GB for Adept Desktop, Client Services, RealDWG, and Viewer installation
Display Resolution	SXGA 5:4 1280x1024 or better

ADEPT DESKTOP CLIENT WORKSTATION (NON-CAD) - SOFTWARE REQUIREMENTS

Operating Systems	Windows 10 (64-bit) ⁽¹⁾ or Windows 11 ⁽¹⁾ <i>(Supported in Desktop mode <u>not</u> Tablet mode)</i>
Microsoft .NET Framework	.NET Framework 4.8 ⁽²⁾
Microsoft Visual C++ Runtimes	Visual C++ 2013 Redistributable (x86 & x64) ⁽²⁾ v12.0 or later Visual C++ 2015-2019 Redistributable (x86 & x64) ⁽²⁾
Microsoft ASP.NET Core Runtime	.NET Core 6.0.11 Windows Server Hosting Bundle or later ⁽²⁾
Microsoft Visual Studio Tools for Applications	Visual Studio Tools for Applications 2017 v15.0. ⁽³⁾

(1) With the latest service packs and hotfixes installed.

(2) Adept installation pre-requisite(s). Higher compatible versions that are in the same major version are acceptable. For instance, Visual C++ 2015-2022 Redistributable and .NET Core 6.0.18 are compatible versions with the listed requirement.

(3) This prerequisite only applies to workstations that will use the Adept add-in to Outlook. This may be installed as part of the full Office suite installation but can be downloaded and installed separately.

ADEPT CAD INTEGRATION CLIENT WORKSTATION - HARDWARE REQUIREMENTS

Installing and running the Adept Desktop Client and CAD Integrations simultaneously on the same workstation is supported. Provision workstations based on your CAD application's requirements as these will generally supersede Adept requirements.

Processor	3+ GHz processor
Memory	16 GB minimum for 500-part assemblies or smaller 32 GB minimum for 500 to 1000-part assemblies 64 GB minimum for 1000-part assemblies or larger
Disk Space	8 GB for Adept Task Pane, Desktop, Client Services, and Viewer installation.
Display Resolution	FHD 16:9 1920x1080 with True Color or higher.
GPU specification	Basic: 1 GB with 29 GB/s Bandwidth and DirectX 11 compliant Recommended: 4 GB with 106 GB/s Bandwidth and DirectX 12 compliant

ADEPT CAD INTEGRATION CLIENT WORKSTATION - SOFTWARE REQUIREMENTS

Operating Systems	Windows 10 (64-bit) ⁽¹⁾ or Windows 11 ⁽¹⁾⁽³⁾
Microsoft .NET Framework	.NET Framework 4.8 ⁽²⁾
Microsoft Visual C++ Runtimes	Visual C++ 2013 Redistributable (x86 & x64) ⁽²⁾ v12.0 or later Visual C++ 2015-2019 Redistributable (x86 & x64) ⁽²⁾
Microsoft ASP.NET Core Runtime	.NET Core 6.0.11 Windows Server Hosting Bundle or later ⁽²⁾
Microsoft Visual Studio Tools for Applications	Visual Studio Tools for Applications 2017 v15.0. ⁽⁴⁾

(1) With the latest service packs and hotfixes installed.

(2) Adept installation pre-requisite(s). Higher compatible versions that are in the same major version are acceptable. For instance, Visual C++ 2015-2022 Redistributable and .NET Core 6.0.18 are compatible versions with the listed requirement.

(3) Adept CAD integration support in Windows 11 is limited to those CAD applications that have stated Windows 11 support.

(4) This prerequisite only applies to workstations that will use the Adept add-in to Outlook. This may be installed as part of the full Office suite installation but can be downloaded and installed separately.

ADEPT CREATOR WEB CLIENT - HARDWARE REQUIREMENTS

Processor	Basic: 2.5–2.9 GHz processor Recommended: 3+ GHz processor
Memory	32 GB
Disk Space	7 GB for Adept Client Services, RealDWG, and Viewer installation.
Display Resolution	SXGA 5:4 1280x1024 or higher
GPU specification	Basic: WebGL 1.0 is based on OpenGL ES 2.0 Recommended: WebGL 2.0 is based on OpenGL ES 3.0

ADEPT CREATOR WEB CLIENT - SOFTWARE REQUIREMENTS

Operating Systems	Windows 10 (64-bit) ⁽¹⁾⁽³⁾ or Windows 11 ⁽¹⁾⁽³⁾
Web Browsers	Microsoft Edge (Chromium) ⁽¹⁾⁽⁴⁾ Google Chrome ⁽¹⁾⁽⁴⁾ Mozilla Firefox ⁽¹⁾⁽⁴⁾
Microsoft .NET Framework	.NET Framework 4.8 ⁽²⁾
Microsoft Visual C++ Runtimes	Visual C++ 2013 Redistributable (x86 & x64) ⁽²⁾ v12.0 or later Visual C++ 2015-2019 Redistributable (x86 & x64) ⁽²⁾
Microsoft ASP.NET Core Runtime	.NET Core 6.0.11 Windows Server Hosting Bundle or later ⁽²⁾

- (1) With the latest service packs and hotfixes installed.
- (2) Adept installation pre-requisite(s). Higher compatible versions that are in the same major version are acceptable. For instance, Visual C++ 2015-2022 Redistributable and .NET Core 6.0.18 are compatible versions with the listed requirement.
- (3) Tablet mode in Windows is not fully supported. Viewing functionality is available in Tablet mode but is limited to using the "Render to PDF" command, which opens the PDF in a browser window.
- (4) Enable GPU hardware acceleration in users' browsers.

ADEPT REVIEWER & EXPLORER WEB CLIENTS - HARDWARE REQUIREMENTS

Processor	Basic: 2.5–2.9 GHz processor Recommended: 3+ GHz processor
Memory	16 GB
Disk Space	No local installation required and no local document caching.
Display Resolution	SXGA 5:4 1280x1024 or higher
GPU specification	Basic: WebGL 1.0 is based on OpenGL ES 2.0 Recommended: WebGL 2.0 is based on OpenGL ES 3.0

ADEPT REVIEWER & EXPLORER WEB CLIENTS - SOFTWARE REQUIREMENTS

Operating Systems	Windows 10 (32-bit or 64-bit) ⁽¹⁾ or Windows 11 ⁽¹⁾
Web Browsers	Microsoft Edge (Chromium) ⁽¹⁾ Google Chrome ⁽¹⁾ Mozilla Firefox ⁽¹⁾
Microsoft .NET Framework	.NET Framework 4.8 ⁽²⁾
Tablet (limited functionality)	Required: Surface with Windows 10 or Windows 11 ⁽⁵⁾ , iPad with latest iOS, Samsung Galaxy with latest Android OS.

(1) With the latest service packs and hotfixes installed.

(2) Adept installation pre-requisite(s).

ADEPT WEB CLIENT SUPPORT FOR LAUNCHING THIRD-PARTY VIEWERS

Adept Web Client allows the Windows default application installed on the workstation to act as the viewer for specified file types. For example, using this option for PDF files will cause PDF documents to be opened using the locally installed PDF reader, most commonly Adobe Reader.

ADEPT MOBILE

Note: This is a new section added for Adept 11.2.0.

ADEPT MOBILE - SOFTWARE REQUIREMENTS

Operating Systems	iOS 15.0 and greater, <i>available at initial release</i> ⁽¹⁾ Android 11 through 14, <i>available shortly after initial release</i> ⁽²⁾
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- (1) iOS 14.0 and older are not supported. On occasion, automatic updates cause newer OS versions to be available before the current Adept Mobile version has been fully qualified.
- (2) Android 11.0 is the minimum requirement. Android 14 is the maximum supported version at this time. On occasion, automatic updates cause newer OS versions to be available before the current Adept Mobile version has been fully qualified.

ADEPT MOBILE - HARDWARE REQUIREMENTS

Phones and Tablets	Most current devices running a supported OS are compatible.
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- (1) We are unable to test every possible Android device variant, please ensure your device runs a supported Android version.

ADEPT MOBILE - OTHER SOFTWARE REQUIREMENTS

Required Adept Version	Adept FALL '23 (11.2.0) or greater is required ⁽¹⁾
PDF Viewer/Markup application	Foxit PDF Editor and Microsoft 365 ⁽²⁾

- (1) Attempting to use Adept Mobile with Adept Web Server versions earlier than Adept FALL '23 (11.2.0) will result in users not being able to login.
- (2) We recommend Foxit PDF Editor or Microsoft 365 for PDF viewing and markup. Although other PDF applications may work, these applications have been tested and verified with Adept Mobile.

ADEPT INTEGRATIONS

Note: No changes from Adept 11.1.0.

Adept has tight integrations with many mainstream CAD and Office applications. The capabilities of these integrations vary depending on the application and application version. The types of integration are:

1. Extract (read) properties, tags, or attributes from documents.
2. Update (write) properties, tags, or attributes to documents.
3. Extract Relationships from parent files that point to externally referenced parts, subassemblies, backgrounds, or overlays.
4. Complete Integration includes the above capabilities plus provides Adept access (commands, menus, buttons, and/or task pane) inside the application.

All Adept Integrations include rendering in the Adept Viewer unless specifically noted below.

APPLICATIONS INTEGRATED WITH ADEPT

AutoCAD 2022 – 2024	Complete Integration (Task Pane in 2022 and later) ⁽¹⁾
AutoCAD Electrical 2022 – 2024	Works with AutoCAD Integration. Custom objects are not supported for this vertical product. File relationships extracted from a .WDP Project File
AutoCAD Mechanical 2022 – 2024	Works with AutoCAD Integration. Custom objects not supported for this vertical product.
AutoCAD 2000 – 2021	Extract/Update Attributes Extract Thumbnails and Relationships ⁽¹⁾
Autodesk Inventor 2022 – 2024	Complete Integration (Task Pane in 2022 and later) ⁽¹⁾⁽³⁾
Autodesk Inventor 5.3 – 2021	Extract/Update Properties Extract Thumbnails and Relationships ⁽¹⁾⁽³⁾
Navisworks Manage 2022 – 2024 Navisworks Simulate 2022 – 2024	Complete Integration (Task Pane in 2022 and later) ⁽¹⁾⁽²⁾
SOLIDWORKS 2021 – 2023	Complete Integration (Task Pane in 2020 and later) ⁽¹⁾⁽³⁾
SOLIDWORKS 95 – 2020	Extract/Update Properties Extract Thumbnails and Relationships ⁽¹⁾⁽³⁾
MicroStation V8 (V8xm, V8i), Connect	Extract/Update Tags Extract Thumbnails and Relationships ⁽¹⁾

Microsoft Office XML-based files	Extract/Update Properties ⁽⁴⁾ ; Extract Thumbnails
Microsoft Excel v16.0 (2013-2022) Excel (versions 2003-2013)	Extract/Update Properties ⁽⁴⁾ Extract Thumbnails and Relationships ⁽¹⁾
Microsoft Word v16.0 (2013-2022) Word (versions 2003-2013)	Extract/Update Properties ⁽⁴⁾ Extract Thumbnails ⁽¹⁾
Microsoft Outlook v16.0 (2016-2022) Outlook (versions 2003-2013)	Extract Properties ⁽⁴⁾⁽⁵⁾
PDF 2.0 (ISO 3200-2:2020)	Extract Properties and Form Text Fields Extract Thumbnails
Generic raster-based images	Extract Thumbnails
Other file types	Extract Properties Extract Thumbnails

- (1) Additional application-specific extractions and other options may be found in the Installation and User Guides.
- (2) The ability in Adept to extract Navisworks files is dependent on having Navisworks installed along with the Navisworks CAD integration. Failure to have these components installed will result in Navisworks files not being properly extracted.
- (3) Complete integration does not include Adept Viewer support for some advanced, format-specific modeling features. Please verify with your Synergis Account Manager whether Adept Viewer supports a modeling feature of interest.
- (4) Support includes extraction and update of documents stored in Adept Work Areas, not on Microsoft OneDrive. Any update to Microsoft 365 applications may invalidate the ability of Adept to extract and/or update documents. Before installing an update to Microsoft 365, please check with Adept Support for details regarding Adept compatibility.
- (5) The Outlook to Adept plug-in supports the 64-bit version of Outlook installed on the local machine.

DISCONTINUED SUPPORT IN THE PREVIOUS ADEPT RELEASE

Adept SQL Database Engine Components:

- Microsoft SQL Server 2014 (there was a typo here in A11.1.0, it incorrectly stated 2016)

NEW SUPPORT IN THE PREVIOUS ADEPT RELEASE

Adept SQL Database Engine Components:

- Microsoft SQL Server 2022 (there was a typo here in A11.1.0 it incorrectly said this was pending)

ADEPT QUALIFIED COMMENT

Adept works with a variety of software and applications including database engines, email systems, FTP servers, and operating systems. Adept has been tested and qualified using specific versions and components most used by our clients. Consequently, we can verify that Adept works with these components. It is not possible, however, to test and qualify every possible version, brand, type, or combination of components that clients may use. Typically, when clients implement Adept in an environment that contains an untested component, they find Adept works correctly-- but not always. If incompatibilities are found, please bring them to our attention. At our discretion, we may try to get Adept running with that component, or we may recommend that a supported component be installed and used instead.

If you have any questions about whether a particular component has been qualified with Adept, please contact your Synergis Account Manager.