Adept

SYSTEM REQUIREMENTS

SUMMER '24 (Version 11.3.0)

WARNING AND DISCLAIMER

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OVERVIEW

To successfully install and run Adept Servers and Clients for the SUMMER '24 (11.3.0) 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 Clients, and Mobile Clients may be part of a complete Adept environment.

Processor requirements in subsequent sections will list "Minimum" 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 "Minimum" clock speeds. While not specifically listed for processor requirements, customers are strongly encouraged to determine the age of existing processors and upgrade processors that exceed 3 to 5 years from the latest available processors.

Customers are strongly encouraged to consider a GPU for their Adept Web Server due to the load that will otherwise fall to the CPU for rendering operations of Adept Viewer.

DISCONTINUED SUPPORT FOR VERSION 11.3.0

No support for any products or components will be discontinued with the SUMMER '24 (11.3.0) release.

ADEPT SERVERS

Adept Server requirements and recommendations will depend on your scope and use of Adept. Discuss with your Account Manager for specific recommendations for your environment. 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.

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. A discrete drive of roughly 150 GB should be used for all Adept components, not including adequate space for vaulted data. The best practice is to plan for 20% to 25% in data growth annually.

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

All Servers – Log files, configurations [1], and temporary files
File Server – Vaulted documents including historical versions [1]
Web Server – Full Text Search cache data [1]
Viewer 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 SINGLE SERVER ENVIRONMENT - HARDWARE REQUIREMENTS

Processor	Minimum: 3+ GHz processor with 8 or more cores Recommended: 3+ GHz processor with 12 or more cores [1]
Memory	Single Server environment: 64 GB [1]
Disk Space	20 GB for Single Server installation. Sufficient storage for initial document load and planned growth. 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.

ADEPT SINGLE SERVER ENVIRONMENT - SOFTWARE REQUIREMENTS

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] Visual C++ 2015-2022 Redistributable (x86 & x64) [2]
Microsoft .NET Core	.NET Core 6.0.26 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.

ADEPT NATIVE SERVER - HARDWARE REQUIREMENTS

Processor	Minimum: 2.5+ GHz processor with 4 or more cores Recommended: 3+ GHz processor with 4 or more cores
Memory	32 GB
Disk Space	3 GB for Native Server installation. Sufficient storage for initial document load and planned growth. [1] Minimal storage for Adept Log files, etc.

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

ADEPT NATIVE SERVER - SOFTWARE REQUIREMENTS

Operating Systems	Windows Server 2019 [1] Windows Server 2022 [1]
Microsoft .NET Framework	.NET Framework 4.8 [2]
Microsoft Visual C++ Runtimes	Visual C++ 2015-2022 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.

ADEPT FILE SYSTEM SERVER - HARDWARE REQUIREMENTS

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

Processor	Minimum: 2.5+ GHz processor with 4 or more cores Recommended: 3+ GHz processor with 4 or more cores
Memory	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

Operating Systems	Windows Server 2019 [1] Windows Server 2022 [1]
Microsoft .NET Framework	.NET Framework 4.8 [2]
Microsoft Visual C++ Runtimes	Visual C++ 2015-2022 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.

ADEPT WEB SERVER - HARDWARE REQUIREMENTS

Processor	Minimum: 2.5+ GHz processor with 4 or more cores Recommended: 3+ GHz processor with 4 or more cores
Memory	32 GB High Utilization System [1]: 48 GB
Disk Space	13 GB for Web Server installation.

(1) More than 50 concurrent users, multiple remote sites, or heavy use of Adept Viewer are considerations for high utilization.

ADEPT WEB SERVER - SOFTWARE REQUIREMENTS

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] Visual C++ 2015-2022 Redistributable (x86 & x64) [2]
Microsoft .NET Core	.NET Core 6.0.26 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.

SOFTWARE TO SUPPORT WEB-BASED VIEWING

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

Database Engine [1]	Microsoft SQL Server 2017 Microsoft SQL Server 2019 Microsoft SQL Server 2022 Microsoft SQL Server 2017 to 2022 Express [2] Oracle® Database 19c

(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) 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

This software is required only for existing systems with FTP Vaults. New customers are strongly encouraged to use AFS Vaults; existing customers are encouraged to migrate to AFS 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]

(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

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

With the SUMMER '24 release, a new Prerequisite Package is now available on the Customer Portal for customers to download and use. The Prerequisite Package includes the most common software prerequisites for typical Adept client workstations. The prerequisites included in the package are:

- Microsoft .NET Framework 4.8
- Microsoft Visual C++ 2013 Redistributable (x86 & x64)
- Microsoft Visual C++ 2015-2019 Redistributable (x86 & x64)
- Microsoft .NET Core 6.0.26 Windows Server Hosting Bundle
- Synergis Integration Manager

In the Software Requirements sections below, these four individual requirements will be marked with a checked box ☑ to indicate that they are part of the Prerequisite Package.

Customers may choose to continue deploying system requirements individually as described in subsequent sections or use the new Prerequisite Package covering most client workstation prerequisites.

The Synergis Integration Manager is a new Requirement for any workstation (or server) where Adept Desktop, a CAD Integration (Adept Task Pane), or Adept Client Services will be installed. It is available separate from the Prerequisite Package from the Customer Portal.

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

Processor	Minimum: 2.5+ 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] *(Supported in Desktop mode not Tablet mode)*
☑ Microsoft .NET Framework	.NET Framework 4.8 [2]
☑ Microsoft Visual C++ Runtimes	Visual C++ 2013 Redistributable (x86 & x64) [2] Visual C++ 2015-2022 Redistributable (x86 & x64) [2]
☑ Microsoft ASP.NET Core Runtime	.NET Core 6.0.26 Windows Server Hosting Bundle or later [2]
Microsoft Visual Studio Tools for Applications	Visual Studio Tools for Applications 2017 v15.0. [3]
☑ Adept Integration Manager	Adept Integration Manager [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.

(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. This add-in is not supported with Windows 11.

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	**Minimum**: 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] Visual C++ 2015-2022 Redistributable (x86 & x64) [2]
☑ Microsoft ASP.NET Core Runtime	.NET Core 6.0.26 Windows Server Hosting Bundle or later [2]
Microsoft Visual Studio Tools	Visual Studio Tools for Applications 2017 v15.0. [4]
☑ Adept Integration Manager	Adept Integration Manager [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.

(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. This add-in is not supported with Windows 11.

ADEPT CREATOR WEB CLIENT - HARDWARE REQUIREMENTS

Processor	**Minimum:** 2.5+ 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	**Minimum**: 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] Visual C++ 2015-2022 Redistributable (x86 & x64) [2]
☑ Microsoft ASP.NET Core Runtime	.NET Core 6.0.26 Windows Server Hosting Bundle or later [2]
☑ Adept Integration Manager	Adept Integration Manager [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.
(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	**Minimum:** 2.5+ GHz processor **Recommended**: 3+ GHz processor
Memory	16 GB
Disk Space	No local installation is required and no local document caching.
Display Resolution	SXGA 5:4 1280x1024 or higher

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 - HARDWARE REQUIREMENTS

Phones and Tablets	Most current devices running a supported OS are compatible [1]

(1) Synergis cannot test every possible Android device variant, please ensure your device runs a supported Android version.

ADEPT MOBILE - SOFTWARE REQUIREMENTS

Operating Systems	iOS 15.0 [1] Android 11 through 14 [1]
PDF Viewer/Markup Application	Foxit PDF Editor [2] Microsoft 365 [2]

(1) On occasion, automatic updates cause newer OS versions to be available before the current Synergis Adept Mobile version has been fully qualified.
(2) Although other PDF applications may work, only these two applications have been tested and verified with Synergis Adept Mobile.

Special Note:

The latest Synergis Adept Mobile application is compatible with FALL '23 (11.2.0) and newer. Attempting to run Synergis Adept Mobile with an earlier version of Adept Web Server is not supported and will result in unexpected behaviors.

ADEPT INTEGRATIONS

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 using Adept Task Pane 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 [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 are not supported for this vertical product.
AutoCAD 2000 – 2021	Extract/Update Attributes Extract Thumbnails and Relationships [1]
Autodesk Inventor 2022 – 2024	Complete Integration [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 [1][2]
SOLIDWORKS 2021 – 2023	Complete Integration [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 [1][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.

PLANNED DISCONTINUED SUPPORT FOR THE NEXT ADEPT RELEASE

In the next release, support for the following is planned to be dropped.

Adept CAD Integrations:

- AutoCAD 2022 complete integration discontinued; extraction remains supported.
- Inventor 2022 complete integration discontinued; extraction remains supported.
- Navisworks 2022 complete integration discontinued; extraction remains supported.
- SOLIDWORKS 2022 complete integration discontinued; extraction remains supported.

PLANNED NEW SUPPORT FOR THE NEXT ADEPT RELEASE

In the next release, support for the following is planned to be added.

Adept CAD Integrations:

- AutoCAD 2025 complete integration.
- Inventor 2025 complete integration.
- Navisworks 2025 complete integration.
- SOLIDWORKS 2025 complete integration.

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.