ELO system requirements

Overview



Table of contents

ELO system requirements	3
Basics	3
ELO server	6
ELO clients	12
ELO modules	16
ELO Business Solutions	19
ELO Cloud	20

ELO system requirements

Basics

The following provides you with basic information about the ELO environment.

Please note

General note on using third-party software:

Regularly check third-party software for security vulnerabilities. Whenever possible, always use the latest compatible version of the third-party software.

Difference between ELOprofessional and ELOenterprise

- In terms of operating systems, ELOprofessional only supports Microsoft Windows. By contrast, ELOenterprise is platform-independent.
- Unlike ELOenterprise, ELOprofessional is not multi-tenant capable.
- ELOprofessional systems are only cluster-ready to a certain extent. They only allow for hot standby operation of individual components. ELOenterprise systems, however, are fully cluster-ready.
- With ELOprofessional, server processes may only be distributed within the same host, i.e. on a server system. By contrast, with ELOenterprise processes can be distributed across multiple hosts (VMs or physical servers).
- With ELOprofessional, the ELO server components (e.g. ELOas) can be distributed across multiple Tomcat servers as long as they are located on one server system (VM or physical server). In contrast, with ELOenterprise, Tomcat servers can be installed on multiple server systems (VMs or physical servers).

A					
Area	ELOenterprise	ELOprofessional			
Operating system	Platform-independent	Windows			
Architecture	SOA-compliant modular client/ server architecture	SOA-compliant modular client/ server architecture			
Maximum number of repositories	Unlimited	20 per repository server			
Maximum number of users	Unlimited	1000			
Maximum number of documents	2 billion per repository	100 million			
Maximum levels per repository	254	254			

Area	ELOenterprise	ELOprofessional
Database	PostgreSQL/Microsoft SQL/Oracle/ IBM DB2	PostgreSQL/Microsoft SQL/Oracle/ IBM DB2
Multi-tenant capable	✓	-
Portal integration	✓	✓
Status log for central monitoring systems	1	1
Distributable server processes	1	Single host
Cluster capacity	1	Hot standby

Java support

Please note

ELOprofessional and ELOenterprise should always be installed on a 64-bit operating system.

Overview of Java support on different operating systems

Windows	macOS	Linux
64-bit installation	Yes	Yes
32-bit installation (or AFM)	Installation allowed	Installation not allowed
Running the client	Only 64-bit	Only 64-bit

Database support

Please note

Your database versions must be supported by the respective vendors and must not contain any known security vulnerabilities.

ELO product	Microsoft SQL Server 2017	Microsoft SQL Server 2019	Microsoft SQL Server 2022	Oracle 19c	Oracle 21c	IBM DB2 11.5	PostgreSQL 13.xx and higher
ELOprofessional Server Windows	1	1	1	1	1	1	•
ELOenterprise Server Windows	1	1	1	1	1	1	v
ELOenterprise Server Linux	1	1	1	1	1	1	1

ELO product	Microsoft SQL Server 2017	Microsoft SQL Server 2019	Microsoft SQL Server 2022	Oracle 19c	Oracle 21c	IBM DB2 11.5	PostgreSQL 13.xx and higher
ELO BLP*	-	-	-	-	-	-	-
ELO DocXtractor II 5.x**	4	1	~	1	1	-	-

* MS Express is also supported if only Oracle is available.

** Refer to <u>ELO DocXtractor > Installation and upgrade > Hardware and software requirements</u> for a detailed list of supported database driver versions.

Please note

Microsoft SQL Server 2016 is no longer supported. This is because of security issues due to insecure encryption functions.

Please note

Mainstream support for Microsoft SQL Server 2017 and Microsoft SQL Server 2019 has expired.

ELO server

The following provides you with more information about the system requirements for the ELO Server Setup and ELO server.

ELO Server Setup

Running the ELO Server Setup requires a current browser. ELO supports the following browsers:

- Mozilla Firefox The most current officially available version
- Google Chrome The most current officially available version
- Microsoft Edge The most current officially available version

ELOprofessional Server

Windows

Operating system

- Microsoft Windows Server 2019
- Microsoft Windows Server 2022
- Microsoft Windows Server 2025

Please note

ELO BLP 5.2 requires Windows Server 2019 upgraded to version 1903 or higher. Otherwise, communication with TLS 1.3 will not work.

Databases

Please note

Your database versions must be supported by the respective vendors and must not contain any known security vulnerabilities.

• Microsoft SQL Server 2017

Please note

Mainstream support for Microsoft SQL Server 2017 has expired.

• Microsoft SQL Server 2019

Please note

Mainstream support for Microsoft SQL Server 2019 has expired.

- Microsoft SQL Server 2022
- Oracle 19c
- Oracle 21c

Please note

You need to make some adjustments in the Oracle system. MAX_STRING_SIZE=EXTENDED must be set and the *objdesc* column of the *Objects* table needs to be wider. Max. 4k characters are supported.

For more information, refer to the guide <u>ELO server</u> - Installation and operation > <u>Preparations</u> > Oracle SQL Server > ELO Business Solutions on an Oracle database.

Please note

When using an Oracle database, please ensure that it uses the correct character set.

For more information, refer to the guide <u>ELO server</u> - Installation and operation > <u>Preparations > Oracle SQL Server</u>.

• IBM DB2 11.5

Please note

When using IBM DB2, the database parameter extended_row_sz has to be set to ENABLE manually.

PostgreSQL 13.xx and higher

Please note

If used with PostgreSQL on Linux, there may be restrictions when finding entries with umlauts if sorted according to German language rules.

Information

After installation, the *Elasticsearch* program library used for ELO iSearch requires sufficient memory to reindex the documents for the full text search.

For more information, refer to <u>Configuration and administration > ELO iSearch guide ></u> <u>Technical description > Sizing and performance</u>.

Java and ELO Application Server

The following components are supplied by the ELO Server Setup:

- Java: OpenJDK 17.0.7 (64-bit)
- ELO Application Server: a modified Apache Tomcat 10.0.24 (64-bit).

ELOenterprise Server

Windows

Operating system

- Microsoft Windows Server 2019
- Microsoft Windows Server 2022
- Microsoft Windows Server 2025

Please note

ELO BLP 5.2 requires Windows Server 2019 upgraded to version 1903 or higher. Otherwise, communication with TLS 1.3 will not work.

Databases

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Your database versions must be supported by the respective vendors and must not contain any known security vulnerabilities.

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Mainstream support for Microsoft SQL Server 2017 has expired.

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- Java: OpenJDK 17.0.7 (64-bit)
- ELO Application Server: a modified Apache Tomcat 10.0.24 (64-bit).

Linux

Please use a current Linux Suse Enterprise distribution.

Operating system

The background service "systemd" in the Linux system is enabled.

- Red Hat Linux 8 and higher
- SUSE Linux Enterprise Server 12 (SLES) and higher
- Ubuntu 20.04 and higher

Databases

Please note

Your database versions must be supported by the respective vendors and must not contain any known security vulnerabilities.

- Microsoft SQL Server 2017
- Microsoft SQL Server 2019
- Microsoft SQL Server 2022
- Oracle 19c
- Oracle 21c

Please note

You need to make some adjustments in the Oracle system. MAX_STRING_SIZE=EXTENDED must be set and the *objdesc* column of the *Objects* table needs to be wider. Max. 4k characters are supported.

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ELO Administration Console

Important

The version of the ELO Administration Console must be compatible with the corresponding ELO Indexserver. Please also read the notes in the server setup.

Software

- ELO Indexserver version 23.000 and higher
- ELO Application Server or an ELOenterprise installation

Web browser

Current versions of Mozilla Firefox or Google Chrome

ELO clients

The following provides you with more information about the system requirements for the ELO clients.

ELO Java Client

Hardware

• The hardware recommended for the configuration of the operating system in use is also required to run ELO.

Please note

ARM-based Microsoft Surface devices are not supported.

Scanner

- TWAIN-compatible scanner systems
- Network scanner

Software

Operating system

- Microsoft Windows 10 (only commercial versions with feature updates, Home and Education versions are not supported)
- Microsoft Windows 11 (only commercial versions with feature updates, Home and Education versions are not supported)
- macOS Big Sur 11.6
- macOS Monterey 12.5
- macOS Ventura 13.2
- Linux (tested with openSUSE 13.2)

Microsoft Office

Versions supported:

- Microsoft Office 2016 Professional
- Microsoft Office 2016 Home and Business (with certain known restrictions, for example the viewer)
- Microsoft Office 2019 (Microsoft Word, Microsoft Excel, Microsoft PowerPoint, Microsoft Windows Explorer), full versions of the Microsoft Office applications
- Microsoft Office 2021 (Microsoft Word, Microsoft Excel, Microsoft PowerPoint, Microsoft Windows Explorer), full versions of the Microsoft Office applications
- Microsoft Office 365 Microsoft Office 365 ProPlus, full version

Information

The online versions included in Office 365 are not supported.

Information

A preview is a simplified display that may deviate from how the document is displayed in the application. If there are major differences, or no preview is offered, use the application to show the document type.

Java

Windows:

• OpenJDK 17 64-bit

macOS:

• JRE 12 64-bit (included)

Linux:

Current Oracle JDK version 17 64-bit

Or:

Current version of OpenJDK 17 64-bit and OpenJFX

ELO Web Client

Software - browser

The desktop versions of:

- Mozilla Firefox The most current officially available version
- Apple Safari The most current officially available version
- Google Chrome The most current officially available version
- Microsoft Edge The most current officially available version

Information

A preview is a simplified display that may deviate from how the document is displayed in the application. If there are major differences, or no preview is offered, use the application to show the document type.

Screen resolution

Minimum resolution 1200 x 700 pixels with 100% scaling in full-screen mode

ELO Desktop Client

Software - Operating system

• Windows 10 or higher

Software - Microsoft Office

- Microsoft Office 2016 (Microsoft Word, Microsoft Excel, Microsoft PowerPoint, Microsoft Windows Explorer), full versions of the Microsoft Office applications
- Microsoft Office 2019 (Microsoft Word, Microsoft Excel, Microsoft PowerPoint, Microsoft Windows Explorer), full versions of the Microsoft Office applications
- Microsoft Office 365 Microsoft Office 365 ProPlus, full version
- Microsoft OneNote 2016 or higher

Information

The online versions included in Microsoft Office 365 are not supported.

Microsoft .NET Core (included in setup)

ELO Desktop Client Plus

• No additional requirements, see ELO Desktop Client.

Information

A preview is a simplified display that may deviate from how the document is displayed in the application. If there are major differences, or no preview is offered, use the application to show the document type.

ELO Integration Client

The ELO Integration Client is an ELO app and therefore has the same minimum requirements as ELOwf. This means that the client can only be integrated into systems with web viewers that have the same scope of functions as the browser versions listed here.

- Current Microsoft Edge
- Current Google Chrome

ELO app (Android)

Operating system

• Android 8.1 or higher

Server

ELO Indexserver 20.10 or higher

You can read more information under <u>ELO mobile apps > ELO app (Android) > Basics > Installation</u> <u>and getting started</u>

ELO app (iOS)

Operating system

• iOS 14 or higher

Server

• ELO Indexserver 20.10 or higher

You can read more information under <u>ELO mobile apps > ELO app (iOS) > Basics > Installation and</u> <u>getting started</u>

ELO QuickScan (for ELOoffice; for ELOprofessional/ELOenterprise)

• iOS 10.3 or higher

You can read more information under <u>ELO mobile apps > ELO QuickScan (iOS) > Setup and</u> <u>operation > Installing the app</u>

ELO Connect

• Android 4 or higher

You can read more information under <u>ELO mobile apps > ELO Connect (Android) > Requirements</u> and installation

ELO WebDAV

Please note

ELO WebDAV cannot be used via a terminal server environment.

ELO modules

The following provides you with more information about the system requirements for additional ELO modules.

The modules for ELO are designed for ELOprofessional and ELOenterprise. If there are any limitations on a module's use, they will be specifically mentioned with the module.

ELO Flows

See: ELOprofessional and ELOenterprise Server.

ELO XC

Operating system

- Microsoft Windows Server 2016
- Microsoft Windows Server 2019
- Microsoft Windows Server 2022

Supported Exchange servers

- Microsoft Exchange Server 2016
- Microsoft Exchange Server 2019
- Microsoft Exchange Online (Microsoft 365)

Required for integration with Microsoft 365

- Windows Management Framework 5.1
- Microsoft PowerShell 5 (possibly Microsoft PowerShell 7 as well)

Supported browsers for ELO XC Manager

- Current version of Google Chrome
- Current version of Mozilla Firefox
- Current version of Microsoft Edge

Other requirements

- Windows Management Framework 5.1
- Exchange Online PowerShell V3 module

ELO COLD

Hardware

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The hardware recommended for the configuration of the operating system in use is also required to run ELO.

Software

- Installed ELO Windows Client (plus DLL)
- TIFF Printer
- XML Importer (only for ELO COLD ENTERPRISE)

ELO Barcode

• ELO Java Client

ELO Replication

See: ELOprofessional and ELOenterprise Server.

Information

ELO Replication is installed as a WAR module on the Tomcat and is not restricted to specific databases.

ELO XML Importer

See: ELOprofessional and ELOenterprise Server.

ELO Signature

• Requirements same as for ELO Java Client

ELO BLP

You can read more information on the latest version under <u>ELO BLP > System requirements for the</u> <u>overall system</u>

For older versions, you can find the documentation on ELO BLP for the respective release on the ELO SupportWeb.

ELO for Microsoft 365

The *Check out to OneDrive* function can only be used with the *OAuth* authentication method, as Microsoft OneDrive requires an OAuth2 token. The *SAML* method cannot be used for the *Check out to OneDrive* function.

ELO Sync for Microsoft 365

- Microsoft 365 license (SharePoint Online, OneDrive for Business, Teams)
- ELOprofessional or ELOenterprise license for version 23 or higher
- •

Windows Server 2019 or Linux x64 or higher

- Current version of Microsoft Office compatible with Microsoft 365
- Current browser
- Databases: Microsoft SQL, PostgreSQL, Oracle
- Internet connection with sufficient bandwidth
- Min. 8 GB RAM
- Min. 2 GHz processor
- Min. 1 GB free hard disk space for program components

ELO Sync for M365 is currently only available as an installation package for Windows and Linux, and is not yet available as a finished Docker image. Both use on-premises and in the Partner Managed Cloud (as a VM or self-created container) possible, see ELO EULA ELO Sync M365.

ELO for Microsoft SharePoint (ELOsp)

• Microsoft SharePoint 2016 or higher

ELO DocXtractor

You can read more information on the latest version under <u>ELO DocXtractor > Installation and</u> <u>upgrade > Hardware and software requirements</u>

For older versions, you can find the documentation on ELO DocXtractor for the respective release on the ELO SupportWeb.

ELO Business Solutions

The system requirements for the ELO Business Solutions are available in the documentation area of each Business Solution under <u>ELO SupportWeb > Business Solutions</u>.

Please note

OSGi plug-ins and ELO Indexserver scripting must not be disabled when using ELO Business Solutions. These are the default settings when using ELO Cloud on Kubernetes.

See also: ELO Cloud on Kubernetes > Global settings

ELO Cloud

There are different modes of operation for ELO Cloud. The modes of operation have different requirements. Below is some information about each mode of operation.

ELO Cloud Business Edition

ELO Digital Office GmbH provides the entire server infrastructure for ELO Cloud Business Edition. The following conditions apply when using this mode:

Hardware

- Internet connection with sufficient bandwidth for all users (at least 2.4 Mbit/s for uploads and 16Mbit/s for downloads)
- End devices such as desktops or laptops

Software

The usage requirements correspond to the requirements for ELO Web Client and, if it is used, ELO Java Client.

The minimum requirement is a web browser in the latest official version. The following browsers are supported:

- Mozilla Firefox
- Apple Safari
- Google Chrome
- Microsoft Edge

Please note

When using the ELO Cloud on mobile devices, such as a tablet or cell phone, we strongly recommend installing the respective ELO app.

Partner Managed Cloud (based on a VM)

With this mode, a partner operates an environment themselves on a VM and makes this available via the cloud.

Server

ELO 23.1 is the version intended for operating cloud environments.

• The requirements for the partner correspond to the requirements of an on-premises installation.

The ELO Indexserver must be able to connect to the license servers on the web at any time: license.services.elo.cloud and license.elo.com. It may be necessary to configure the firewall.

• When using the Business Solutions (gen. 1), please note the system requirements for each solution. These can be found in the <u>ELO SupportWeb under Business Solutions</u>.

Please note

OSGi plug-ins and ELO Indexserver scripting must not be disabled when using ELO Business Solutions.

See also: ELO Cloud on Kubernetes > Global settings

Use

• See requirements for ELO Cloud Business Edition.

Partner Managed Cloud (based on Kubernetes)

With this mode, the partner provides a Kubernetes environment analog to ELO Cloud Business Edition. This results in the following system requirements:

Server

ELO 23.1 is the version intended for operating cloud environments.

• The ELO Indexserver must be able to connect to the license servers on the web at any time: license.services.elo.cloud and license.elo.com. It may be necessary to configure the firewall.

Base load (idle phase) per client

• at least 2.2 GB RAM

Recommended limits

- ELO Server (base): 2-4 GB RAM
- ELO iSearch: 2-3 GB RAM and sufficient block storage for data
- ELO Flows: 1 GB RAM
- ELO Flows Worker: 1 GB RAM
- ELO Textreader (gen. 2): 2-6 GB RAM

When using the Business Solutions (gen. 1), the limits must be increased accordingly. Please note the system requirements for each solution. These can be found in the <u>ELO SupportWeb</u> <u>under Business Solutions</u>.

Please note

OSGi plug-ins and ELO Indexserver scripting must not be disabled when using ELO Business Solutions. These are the default settings when using ELO Cloud on Kubernetes.

See also: ELO Cloud on Kubernetes > Global settings

• For other modules, such as ELO Automation Services, additional limits may be necessary.

Database

• Different system requirements may be needed depending on the type of externally operated databases.

Document paths

• Different system requirements may be needed depending on the type of data storage used.

Use

• See requirements for ELO Cloud Business Edition.