# LSEG Workspace | Desktop

## System Requirements

The list of system requirements that users must meet to run LSEG Workspace® on a personal computer and certain tablets[1], where the operating system is either Microsoft® Windows® or Apple® macOS®.
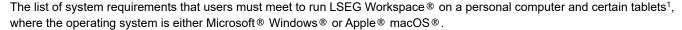
⚠ During installation, a system test[2] is performed to check whether the environment meets the minimum levels required. For further information see the [System Test Guide](#).

# Desktop[3]

| | | High resource | Recommended | Minimum |
|---|---|---|---|---|
| Processor [4] | Intel® | Core™ i9 (14 cores) | Core i7 (10 cores) | Core i5 (8 cores) |
| | AMD | Ryzen™ 9 (12 cores) | Ryzen 7 (8 cores) | Ryzen 5 (4 cores) |
| | Apple | M1 Ultra | M1 Max | M1 |
| Graphic Processing Unit | | It is strongly recommended that 3D GPU acceleration is enabled. Workspace is based on Chromium, which uses the GPU for rendering environments. | | |
| Memory | | 24 Gb | Single screen: 8 Gb<br>Multiple screens [5]: 16 Gb | 8 Gb |
| Hard disk | | 3 GB free disk space or higher | 1 GB free disk space | |
| Screen resolution | | 1920 x 1080 or higher | 1920 x 1080 | 1280 x 1024 |
| Virtual Desktop Infrastructure [6] | | Support is based on the ability of VDI platforms to continuously meet the minimum system requirements. | | |

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[1] Workspace has been tested successfully on Microsoft Surface® Pro and Apple iPad®.

[2] In currently supported versions of Workspace, the test performed prior to installation no longer checks for the presence of the PowerShell app, as the 50 most used apps do not require this application. However, if you are using more niche applications, it may be a requirement.

[3] Hardware - CPU, memory, and GPU - of a higher specification may be necessary, depending on the requirements of other LSEG or third-party applications that are run concurrently with Workspace.

[4] The number of cores (or logical processors) specified for each processor are for the base model of the respective processor that is currently available. However, earlier generations of the same processors that are still maintained by their respective manufacturers can be used to run Workspace at the resource levels indicated above.
So, for instance, the Intel Core i5 specified above, is a 13th generation processor. However, the base 7th generation 'Kaby Lake' processor (4 cores) is maintained by Intel and thus supported to run LSEG Workspace.

[5] With Advanced Monitoring - multiple screens, running different applications.

[6] LSEG currently provides limited testing support and technical advice on Citrix® VDI solutions. However, customers deploying a VDI solution should consider the following when deploying, updating, and running Workspace:
- The impact of network latency and equipment used.
- The potential for virtualization machines to adversely affect performance for end users.

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|  |  | High resource | Recommended | Minimum |
|---|---|---|---|---|
| Operating system | Windows [7] [8] | 10 or higher (64-bit only) | | |
|  | macOS | 11 (Big Sur) or higher [9] | | |

# Web

|  | Recommended | Minimum |
|---|---|---|
| Display settings | 1920 x 1280 | 1024 x 768 |
| Web browser [10] [11] | Workspace web access is supported on the following versions of: Google Chrome™ - Stable channel version(s) Microsoft Edge – Stable channel version(s) Apple Safari® - running under the Workspace-supported versions of macOS | |

# OpenFin

The requirements for Workspace on OpenFin[12], when run under Windows and macOS [9], are largely the same as those laid out elsewhere in this document. However, OpenFin does not have the same, high end hardware requirements.

For virtualised environments, use of Workspace on OpenFin[13]:

- Has not been validated for Citrix Virtual App.

- Requires between 8GB and 16GB RAM, regardless of usage profile.

- Depends on the number of users and their platform usage profile. For recommendations regarding vCPU requirements, refer to the **Virtualised environment requirements** section, below.

Additionally, from the 2.11.0.21 release of Workspace for OpenFin, the following minimum OpenFin runtime version is required:

- 38.126.82.69

# Mobile

The LSEG Workspace iOS and Android apps can be downloaded from their respective store pages, below, where handset requirements are also defined:

- iOS

- Android

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[7]   The recommended Windows 11 editions are Pro and Enterprise.
[8]   The wmic (Windows Management Interface Command) tool can be removed from Windows version 10 onwards. However, it is currently a requirement for Workspace to run. This dependency will be removed from an upcoming version of Workspace.
[9]   For Workspace on OpenFin, macOS 13 (Ventura) or higher is required. For further information, see the OpenFin macOS overview page.
[10]   Workspace may run on other releases of these browsers, but you might not be able to use all features.
[11]   Running on Windows OS or macOS platforms. Tablets are currently unsupported.
[12]   Workspace, powered by OpenFin, is currently in its Pilot stage. For further information regarding this product and its development roadmap, contact your account team.
[13]   For related information regarding System Requirements for OpenFin, refer to VDI Deployment on the OpenFin developer site.

# Associated LSEG product requirements

This section provides either details or links to relevant documents covering the requirements of LSEG products that feed or use the capabilities of Workspace.

## Microsoft Office add-ins

Access to LSEG data and tools is provided through either of the following separately installed add-ins. These tools provide an additional menu ribbon in certain Microsoft Office apps, where:

- **Workspace**

  This add-in is the core product, which has a comprehensive set of capabilities. This add-in is the recommended add-in for most users.

- **Workspace Lite**

  This add-in provides basic capabilities and is typically recommended for macOS and web browser-based environments due to its functional limitations.

For information regarding:

- Microsoft Office version requirements, browser compatibility, and tool support comparison, refer to the Workspace Add-Ins - System Requirements.

- Prerequisites, installation, and deployment instructions for the required add-in, refer to:

  - the Workspace Add-Ins – Workspace Lite Installation Guide, or
  - the Workspace Add-Ins - Workspace Installation Guide.

## Real-Time product version compatibility

For LSEG Workspace, the following Real-Time product versions are recommended:

| Product | Recommended | Supported |
|---|:---:|:---:|
| Real-Time Distribution System<br>• Real-Time Advanced Distribution Server[14]<br>• Real-Time Advanced Distribution Hub | 3.8[15] | 3.6 and 3.7[16] |
| LSEG Real-Time Data Access Control System (formerly DACS) | 7.7 or higher[17] | |

# Virtualized environment requirements

LSEG has validated the use of Workspace in the following virtualized environments:

- Citrix – Virtual Apps™, Virtual Desktops™

- VMWare – Horizon®

- Microsoft Azure® Virtual Desktop (AVD)

General and provider-specific requirements are summarised in the sections that follow.

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[14]  For additional information regarding the Real-Time Advanced Distribution Server encryption capabilities offered by version 3.8, see the **Local connection security parameters** section of the Installation and Configuration Guide.

[15]  The Perm Sync feature of the Real-Time Data Access Control System requires, as a minimum, Real-Time Distribution System version 3.8.1. For further information regarding Perm Sync, see the DACS Permission Synchronization Configuration Guide, found under the DACS section of MyAccount.

[16]  Version 3.7 or higher is required for RWF data.

[17]  In line with the new rolling obsolescence plan being introduced for the Real-Time Data Access Control System on 01 February 2025.

# General requirements

| | Recommended | Minimum |
|---|---|---|
| vCPUs (per user)[18] | 6 | 4 |

# Citrix

The following tables contain:

- The common CVAD combinations that LSEG has tested, and
- The specific requirements for each environment:

| LTSR version | 7.15 | CVAD 7 1912 | CVAD 7 2203 |
|---|---|---|---|
| Cumulative Update | 9 | 7 | 3 |

## Virtual Apps (formerly XenApp®)

| Windows Server version | • 2016 Datacenter<br>• 2016 Standard | • 2019 Datacenter<br>• 2019 Standard<br>• 2022 | • 2019 Datacenter<br>• 2019 Standard<br>• 2022 |
|---|---|---|---|

## Virtual Desktops (formerly XenDesktop®)

| Hypervisor | VMWare ESXi 6.7 | VMWare ESXi 6.7 | VMWare ESXi 6.7 |
|---|---|---|---|

# VMware Horizon

Running Workspace under VMware Horizon version 8 has been tested successfully in the following configurations:

| | Application / Service | Version(s) |
|---|---|---|
| VMWare | Horizon Connection Server | • 2203 |
| | Horizon Agent | • 2203 |
| | Horizon Client | • 2203 • 2212.1 |
| | Blast (display protocol) | |
| Microsoft | Windows | • 10 • 11 |
| | Windows Server | • 2016 • 2019 • 2022 |

# Transport Layer Security

To continue to access Real-Time services, Workspace users must ensure **Use TLS 1.2** is enabled in their Internet Security settings.

For further information, see [PCN205244-Change in supported TLS protocols for Eikon and Workspace](#).

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[18] A minimum of two logical processors are required per user. Power and multi-screen users require more logical processors per user.

# Data transfer

The figures in the table below, indicate the minimum recommended bandwidth to run the home page of the default Workspace installation during periods of high activity.

| | Workspace Desktop | Workspace Web |
|---|---|---|
| Asset Portfolio Management | | 100 kb/s |
| Foreign Exchange (FX) | | 75 kb/s |
| Investment Banking | 175 kb/s | 85 kb/s |
| Trading | | 100 kb/s |
| Wealth Management | | 85 kb/s |

# About Workspace

For further information about Workspace, refer to the [LSEG Workspace](#) site, where you can also find other technical content in the [Documentation](#) section.

## Further information

To:

- Request product assistance, contact [Support](#).

- Access other LSEG Workspace technical content, see the [Workspace technical documentation site](#).

- Provide feedback on Workspace technical content, contact [DocFeedback@lseg.com](#).

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Document version: 1261.01