



# System requirements

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# Contents

Client Requirements .....	1
Browser and device support.....	1
Email clients .....	2
Additional software .....	2
Support for e-learning content .....	3
Size of content.....	3
SCORM 2004 compatibility .....	3
“Review” mode for SCORM content.....	3
Integration with applications and systems.....	4
Single Sign On (SSO).....	4
Office 365 and Microsoft Exchange.....	4
IT infrastructure requirements .....	5
Email signing and junk mail prevention: DKIM and SPF .....	5



# Client Requirements

## Browser and device support

Applications in the Kallidus Suite are accessed via a web browser. Kallidus supports platforms that are currently maintained by their respective providers. Note: Some e-learning content may have specific browser requirements; please verify compatibility with your content provider.

### Desktop support

We support the **current stable versions** of the following browsers. There are no specific hardware requirements for the client PC; however, desktop and application virtualization systems (e.g., Citrix) are **not supported**.

Browser	Requirements
Google Chrome	Current versions of these browsers are supported based on testing with earlier versions during development. Although Kallidus will work to maintain compatibility, be aware that issues may be introduced if and when Google, Mozilla or Microsoft makes significant changes between rapid releases.
Mozilla Firefox <sup>1</sup>	
Microsoft Edge	
Apple Safari (Mac OS)	Latest two major macOS versions

<sup>1</sup>To align with SAP Business Objects certification, reporting is supported on the two most recent **Mozilla Firefox** ESR branches. Consult the [Firefox ESR Release Cycle](#) for currently supported versions.

### Mobile devices

Kallidus supports the **two most recent major versions** of the operating systems and browsers listed below. To verify if your OS is still maintained by the manufacturer, visit [endoflife.date](#).

Device type	Hardware / OS	Browser	Interface access
Tablet	Apple iPad Samsung Galaxy	Safari Chrome	User and administrator
Smartphone	Apple iPhone Samsung Galaxy	Safari Chrome	User interface only



## Important mobile constraints

- **Administrator interface:** To ensure a functional experience, the Administrator interface is only supported on tablet devices or desktop browsers.
- **Reporting:** Business Objects reporting is not supported on any mobile device or mobile browser.
- **Version policy:** Support is limited to OS versions receiving active or security updates from the provider (Apple, Google, or Samsung). Once a version reaches "End of Life" (EOL), it is no longer supported by Kallidus.

## Email clients

Kallidus applications send email notifications and reminders, presented in plain text or HTML format. HTML formatting can be interpreted in different ways in different email clients, and it is up to the organisation to verify that email templates appear correctly in the email clients that they use.

Where calendar invites are sent by email (as ICS attachments), we will test the functionality with the most recent versions of Microsoft Outlook and Gmail/Google Calendar.

## Additional software

Some Kallidus products store and present documents in PDF format. For example, Kallidus Recruit stores candidate applications as PDF documents. Most modern browsers can display PDF documents without additional software. For organisations using older browsers, a PDF software may be required to view these documents.



# Support for e-learning content

## Size of content

Learn can play your e-learning content. The size of this content can impact your learners' user experience and it is important to think about how your content will display.

The “player” which displays the learning content automatically loads at a screen size which is relative to the size and resolution of the learner's computer/device. We therefore advise trying to work out the most common screen resolutions in use in your organisation, and that you design content that “fits” that screen size. For example, if your organisation is mainly running desktop machines at 1024x768 then you can design/purchase content at this size – this will be supported in the full screen mode which uses the whole screen to show the content.

We always recommend that the content you use is responsive. This means it resizes depending on the screen it is displayed on. This is important as you often need your e-learning to work across different devices and sized screens.

Ideally you should test a piece of content before committing to it. An early test can highlight early problems and ensure these are sorted out before you commit to creating/purchasing a whole set of content that may not work in an optimum way for your learners.

Need help? We are always happy to chat about e-learning. Please do get in touch early on if you are either designing or purchasing new content and want to understand how this will work best in Learn.

## SCORM 2004 compatibility

Kallidus Learn supports single-SCO SCORM 2004 content. It does not support multi-SCO SCORM packages.

## “Review” mode for SCORM content

Kallidus Learn supports “Review” mode, which stops the content tracking so that your learners can reference the content again without recording a new result. Some SCORM compliant content authoring tools also offer extended “Review” mode functionality which could allow learners to browse the content without having to follow any prescribed route through it. You may want to think about this functionality before authoring your content. We are happy to provide guidance on this.



# Integration with applications and systems

## Single Sign On (SSO)

Kallidus products support federated authentication using the WS-Federation, SAML 2.0 (SP-initiated SSO only) and OpenID Connect standards, and therefore allow authentication from an Identity Provider that implements these. Examples include:

- ADFS 3.0 for WS-Federation
- Okta for SAML 2.0
- Azure AD B2C for OpenID Connect

## Office 365 and Microsoft Exchange

Kallidus Learn can integrate with Office 365 and Microsoft Exchange Server so that instructor led events appear as meetings on each attendee's calendar. The attendees would receive meeting updates if the instructor led event changes, and they can decline the meeting which will update their booking in the LMS to "cancelled".

Kallidus Learn supports Office 365 and Exchange Server 2016, and requires the following additional components and configuration:

- Exchange Web Services (EWS) must be installed and accessible from Kallidus servers over SSL port 443 with OAuth2 authentication.
- A "service account" must be provisioned in Exchange with a mailbox. Invites will be sent with the name and email address configured for this mailbox.





## IT infrastructure requirements

Every organisation has its own internal IT processes, so the changes required to the configuration of the IT infrastructure will differ. Below are some of the common requirements.

Access to the Kallidus applications, and any referenced content, is via HTTPS only with TLS 1.2 or above. All secure ciphers listed on <https://ciphersuite.info/cs/> are supported, and all weak and insecure ciphers are not supported.

If access to web sites is restricted, the following URLs should be added to allow lists:

*.kallidus-suite.com *.kallidusapi.com	Required for all Kallidus products
*.engageinlearning.com *.engageinlearning.uk translate-pa.googleapis.com translate.google.com cdn.ckeditor.com	Kallidus e-learning content
*.kallidusrecruit.com	Recruit only
*.kallidus1.com	360 only
*.81boxes.com	Talent only

### Email signing and junk mail prevention: DKIM and SPF

#### What are DKIM and SPF?

These are methods of ensuring that system originated emails are verified by the receiving email system and are therefore significantly less likely to end up in junk/spam mail folders.

“Domain Keys Identified Mail” (DKIM) is a method for digitally signing email with a key that any external recipient can validate with the clients DNS records to verify the email is genuine.

“Sender Policy Framework” (SPF) is an email validation system that verifies the address of the sender’s server. It is designed to improve mail delivery and to prevent spoofing. Setting up SPF records provides a process to verify a provider is authorised to send email on your behalf, increasing mail delivery as a recipient email system can determine the email is valid.



*If the SPF and DKIM actions are not completed, your organisation must accept that system emails will be sent from `companyname@kallidus-suite.com`.*

## How do I implement DKIM?

Your organisation needs to update the DNS records of your domain so systems can locate the domain key for email verification. We specify two keys to allow for rotation and replacement as a security measure, so both entries should be added to your DNS by your IT team.

Two CNAME records are required:

- `kal1._domainkey.your_email_domain.com` points to `dkim1.kallidus-suite.com`
- `kal2._domainkey.your_email_domain.com` points to `dkim2.kallidus-suite.com`

## How do I implement SPF?

To authorise Kallidus to send email on your behalf, you must add our SPF mechanism to your SPF record:

```
include:kallidus-suite.com
```

To confirm that the SPF record passes validation checks, use the SPF Query Tool from <https://tools.wordtothewise.com/spf/check>. If validation fails with Too many DNS lookups, you can add the server to your SPF record instead:

```
a:mailrelay.kallidus-suite.com
```

## What other ways can I ensure that messages are delivered?

You should ask your messaging team, IT department or ISP to:

- Add our mail server addresses to allow lists for sending servers. This will ensure that email is not flagged as spam or filed as junk.
- Allow our mail servers to relay for your domain by adding the addresses to your SPF record. This will allow Kallidus systems to legitimately send email from your domain, which may otherwise be rejected by third-party email servers.
- Add our mail server addresses to any spam filters.
- For important messages, ensure that your system is configured to send text messages.

Kallidus products send emails from `mailrelay.kallidus-suite.com` (51.140.109.121)

*Note: Kallidus do not recommend adding IP addresses to allow lists as these may change.*