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## campusM Browser and Operating System Support

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### campusM Apple iOS Native App

The **latest two major production release versions** of the iOS operating system are directly supported by the campusM native app, available through the official App Store.

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#### Note

- Some functions and features require device-specific technologies, such as Bluetooth and GPS that must be present and enabled.
- For iBeacon Crowd Source validation, the user's device needs to support and be enabled for Bluetooth, and permissions need to be enabled for both Bluetooth and Locations (Precise).
- While campusM should always remain accessible and usable on all supported devices, we recommend to use campusM in portrait mode as some of the app screens are not optimized for landscape mode on iPads.

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We do not currently support the iOS Native App operating on M1 chip enabled Mac Hardware.

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### campusM Android OS Native App

The **latest four major production release versions** of the Android operating system are available through the official Play Store, on devices (hardware) that support Open GL version 2.0 are directly supported by the campusM native app.

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#### Note

- Some functions and features require device-specific technologies, such as Bluetooth and GPS that must be present and enabled.
- For iBeacon Crowd Source validation, the user's device needs to support and be enabled for Bluetooth, and permissions need to be enabled for both Bluetooth and Locations (Precise).
- We only support apps downloaded officially from the stores.
- While campusM should always remain accessible and usable on all supported devices, we recommend to use campusM in portrait mode as some of the app screens are not optimized for landscape mode on tablets.

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### campusM Web App & campusM App Manager

campusM supports all the leading browsers: Chrome, Firefox, and Internet Explorer. There is an ongoing process of

monitoring new browser versions and checking their compatibility with campusM. For all browsers, users must enable JavaScript and cookies.

Specifically, the following desktop browsers are supported:

- **Microsoft® Edge**
  - From April 2021, we will no longer actively support Internet Explorer 11. This means that we will no longer use Internet Explorer as part of our QA suite and if a customer finds an issue in this legacy browser, we will advise customers to use Microsoft Edge or an alternative browser rather than correcting the product for use in Internet Explorer. This is in line with Microsoft's guidance and their migration to Edge as their supported browser. See [Microsoft: Lifecycle FAQ - Internet Explorer and Edge](#)
- **Mozilla® Firefox®**
  - Test and support the two most recent and stable versions of Firefox on an on-going basis.
- **Google Chrome™**
  - Test and support the two most recent stable versions.
- **Safari**
  - Test and support the two most recent stable versions.
- **Other browsers**
  - Since campusM is built in accordance with industry standards, it is likely campusM will function well in browsers that are absent from this list. However, quality assurance and bug fixes are performed only on the named browsers above. This includes support for mobile browsers.

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## App Store Support

The campusM production native apps are only distributed to end users via the official Apple and Google app/play stores. This provides a reliable and secure route for distributing and updating apps for end users. Some restrictions to regional distribution exist due to trade or political constraints.

Please check both Apple and Google's official supported distribution information to find the latest information on coverage.

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## campusM Connect Layer Requirements

As part of the on-campus infrastructure requirements, campusM requires Apache Tomcat servers with Java installed that are accessible via HTTPS from outside the University – this is the campusM Connect Layer.

These Tomcat servers should be accessible for Ex Libris technical staff to manage the web service code that is deployed on the Connect Layer.

Please review the following page for details of the campusM Connect Layer Requirements and setup: [https://knowledge.exlibrisgroup.com/campusM/Implementation/Implementation\\_Guides\\_and\\_Configuration\\_Forms/020Connect\\_Layer\\_Installation\\_Guide](https://knowledge.exlibrisgroup.com/campusM/Implementation/Implementation_Guides_and_Configuration_Forms/020Connect_Layer_Installation_Guide)