

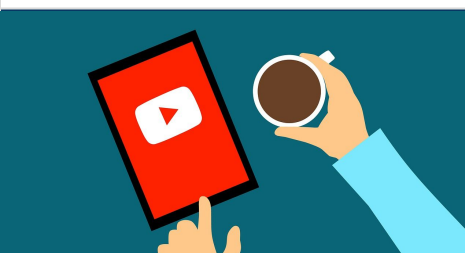
Why RAD Studio for Mobile Development?

Market trend data clearly shows [Mobile is now the dominant platform for end-user engagement](#), with Android the biggest platform on the market today. It is, therefore, more important than ever to have a mobile strategy in place as part of a complete software vision. When looking to develop a mobile application, a number of key considerations come into play, including **User Experience**, **Data Security**, and **Total Development Costs** (Covered in depth in the [White Paper – RAD Studio Guide For Managers](#)). Delphi is the only language that answers all these challenges (without compromise) by enabling you to build fully compiled **true native applications**, from a **single code base** for all platforms. Delphi achieves this using the same compiler as Xcode on iOS, and by compiling to the NDK on Android (same layer used by games developers for speed and performance), with mature run-time libraries based on modern OOP practices, allowing you to reach all platforms at the same time, everytime, with the lowest total cost of ownership, the fastest speed in development, and strongest security in place.

Install & Initial Setup

You can download a free 30 day trial for RAD Studio Architect from <https://www.embarcadero.com/products/rad-studio/start-for-free>. Registering for the trial will send you an email with your trial key and will start the download.

- The Install notes on [DocWiki.Embarcadero.com](https://docwiki.embarcadero.com) give extra information. (such as minimum spec)
- Recommend you add Android and iOS as Target Platforms during installation. Along with the Java SDK. Alternatively you can add **Target Platforms, Help, Samples**, etc by opening **Tools > Manage Platforms** in the IDE.



[VIDEO] IDE Setup and First Android App <https://www.youtube.com/watch?v=39lplWi0oal>



- Adding Platforms
- Checking SDK's
- Connecting your Device
- Deploying and debugging a Hello World App.

[VIDEO] Setup and Deploy of first iOS App <https://www.youtube.com/watch?v=Pgg4009SCEk>



- Checking Platforms
- Introduction to PAServer ready to add SDK's
- Connecting your Device
- Deploying and debugging a Hello World App.

Videos

Other popular Getting Started videos | [Mobile Weather REST Client](#) | [Mobile App with local data storage](#) | <http://bit.ly/WelcomeToDelphi>

Platform Requirements

Android : The same machine (or VM) your IDE is installed in will do (Windows 10). You also need to ensure the JDK and SDK are installed for Android. (check **Tools > Manage Platforms > Extras**). if you manually install the SDKs, please check pathings in **Tools > Options > Deployment > SDK Manager**

iOS : To deploy onto iOS hardware, you need to be enrolled in the Apple Developer Program and have access to Apple hardware (legal thing in the Apple EULAs for app signing). RAD Studio uses PAServer as the bridge to the host mac to enable the device to run and debug from the IDE.

Low Code Wizard

- **Low code Wizard** : Under **Tools > GetIt Package Manager** Install the "FireMonkey App Low Code Wizard". Then **File > New > Other > Delphi > Multi-Device > FireMonkey Template App**.
- This wizard generates a outlined project with frames, unit test, and best practice MVC examples.

- Alternatively use **File > New > Multi-device Application** - to create a blank project.
- **Top Tip** - As you see from the Low Code Wizard, Frames can make mobile app development a lot easier. Check out [TFrameStand](#) in GetIt

Frameworks and Libraries

- **FireMonkey (FMX)** is the UI framework used for visually designing stunning cross platform apps.
- FMX uniquely enables developers to choose native or styled controls for ultimate platform fidelity.
- Control styles default to the platform look and feel for the best, expected, user experience, but can also be overridden for a truly customized design by using a single "StyleBook" component..
- FMX supports styles & **[Video] 60+ no code shader effects**. (such as Glow Effects to highlight required fields to end users)

- Core multi-platform runtime library include Database access library ([FireDAC](#)) and core System libraries e.g. [Generics](#), [Parallel Programming Library](#), [JSON](#), [IOUtils](#), [Regular Expressions](#), [NetEncoding](#) and more.
- **[Video] Language Features and RTL libraries introduction** - <http://bit.ly/WelcomeToDelphi>
- **Checkout the Samples folder for examples of UI Controls, Sensors, and Frameworks in action.**

Prototype Faster!

- To support differences in platform standards (e.g. Tabs at Top on Android and bottom on iOS) FMX controls includes options for setting values to "Platform Default".
- **On Device Live Preview with FireUI** - RAD Studio enables you to view your form, with prototype data as you build the UI, and how it looks differently on different platforms. Checkout [FireUI](#)

- [InterBase](#) + FireDAC give you have a highly powerful cross platform database that works across the development cycle on Windows, Linux, macOS, iOS & Android.
- InterBase ToGo run time license is Included in Enterprise and Architect editions, and includes the IoT Award winning Change Views, for tracking field level changes in the data layer, enabling developers to build apps faster with local data storage they can sync remotely when back online.

Need Advice?

Embarcadero pre-sales engineers are available to discuss your project requirements and help point you in the right direction. [Ask your local sales rep for an appointment..](#)