



# Etanova Enterprise Solutions

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## iOS iPhone and iPad

Develop mobile apps for iOS iPhone and iPad devices to gain access to the world's most popular AppStore accessed by the largest mobile user base. Take advantage of the iOS framework for operating system functionality accessible to both Objective-C and Swift programming languages. Take advantage of hardware acceleration on iOS devices that create stunning motion driven interfaces.

### Objective-C Programming Language

Use Objective-C, one of the most popular programming languages in the world for iOS app development. Objective-C is well documented and is a time-tested solution for mobile development in iOS.

### Swift Programming Language

Develop iOS apps much faster with the new Swift programming language which is faster and easier to use. Swift supports modern programming conventions such as type face, generics, closures, namespaces and multiple return types.

## Android Phones and Tablets

Develop for Android mobile operating system, the world's most popular open source platform. Integrate Android mobile applications into hundreds of existing Android compatible mobile devices, with new devices constantly in production. Android application development has no restrictions on the developed software, and thus allows for various applications with no recurring license expenses. Application deployment and revisions are free and are not time consuming.

### Android SDK

Develop using the Android Software Development Kit (SDK), a powerful development framework that can deploy to hundreds of compatible mobile devices. The framework uniquely utilizes the hardware capabilities of each device for optimal performance. It also adapts an applications user interface to best suit each device.

### Spring for Android

Use the Spring for Android Framework for Android mobile development. The framework features a REST Client and Authorization support for accessing secure APIs. As with all Spring projects, a key advantage to the framework is in how easily it can be extended. Other advantages include: detecting device information, building RESTful web services, form input validation, Messaging with Redis and JMS, accessing external APIs, etc.

## Windows Phones and Tablets

Take advantage of the new Windows Mobile OS with new interface features that makes it stand out from other platforms. The Microsoft Mobile operating system has software with which desktop users are already familiar, such as Internet Explorer, Media Player, Office, etc. Moreover, the behaviour and functionality is often similar to the Windows operating system. The platform also provides solid integration with existing Microsoft products such as Office, Exchange, SharePoint, and Azure. Microsoft Mobile is a trusted development platform because of its enterprise-wide security policy.

### Windows Phone SDK

The Windows Phone Software Development Kit (SDK) simplifies development for the Windows mobile platform with a Phone emulator for desktop devices, and development tools integrated into Visual Studio. It also includes Microsoft Expression Blend for building complete user interface designs.

### .NET Compact Framework

Maximize code reusability with the Windows .NET Compact Framework, designed to run on mobile devices with constrained resources. The framework has many of the same classes available on the full .NET Framework. Some libraries are specifically redesigned for mobile, as to use fewer resources.

## Hybrid Frameworks

Create Hybrid mobile applications that will only be coded once and deployed to all modern mobile operating systems. Hybrid frameworks encapsulate web applications written in HTML, CSS and JS in native mobile apps. To end users, no distinction can be made between a native app or a hybrid app. Hybrid applications are an ideal solution for projects that are not dependent on hardware acceleration, such as video games or other visual animations. Use hybrid frameworks to access a phone's operating system features including: camera, GPS, contacts, etc.

### Apache Cordova

Use Apache Cordova for a solid hybrid framework developed and maintained by the Apache Foundation. This open source framework has several other prominent frameworks that are built from it including PhoneGap, Ionic and Titanium, where each extension attempts to add its own style or proprietary features.

### Adobe PhoneGap

Develop with Adobe PhoneGap, as one of the leading developers of hybrid frameworks. Adobe

was the initial owner of PhoneGap before offering it to Apache for free so that it can be Open Sourced and standardized. Now, Adobe PhoneGap extends Cordova adding additional features that may be beneficial to some projects.