

Apple sold 10 million new iPhone 6 models setting a new weekend sales record

Nearly half of active iPhones and iPads are already running iOS 8

IOS8 INTRODUCTION

iOS 8 is the eighth major release of the iOS mobile operating system designed by Apple Inc. as the successor to iOS 7. It was announced at the company's Worldwide Developers Conference (WWDC) 2014 on June 2, 2014, and was released on September 17, 2014. iOS 8 includes over 4,000 new APIs that let the developers add amazing new features and capabilities to the apps.

Beta 1 was introduced at the company's World Wide Developer Conference on June 2, 2014, it was released to developers later that day. Billed as "The biggest change to iOS since the introduction of the App Store", iOS 8 brings some major new features and user interface enhancements over iOS 7. The Golden Master version of iOS 8 was released to developers on September 9, 2014, and the public update was released on September 17, 2014.

iOS 8 requires around 6 GB of free space for the installation process to work. Once installed, it takes up more storage than iOS 7, on average an extra 740 MB on iPhones and 1.03 GB on iPads.

There are many worthy hidden features to iOS8 like

- Auto night mode in iBooks
- Panoramic photos on iPad
- Battery usage by app
- Travel time notifications
- 24 new dictation languages
- Camera timer
- Instant burst mode
- Separate focus and exposure in Camera
- RSS feeds in Shared Links
- Improved zoom for accessibility
- Purchase iTunes content with Siri
- Rich text editing in Notes



**iOS 8 Launched 2 Days
Before the iPhone 6**

iOS8 has lots of new features, including a new keyboard, Handoff functionality, enhanced Siri functionality, the ability to send audio messages and cool new health & fitness features.

FAST FACTS

Getting Your App Ready for iOS 8 – Top features and recommendation

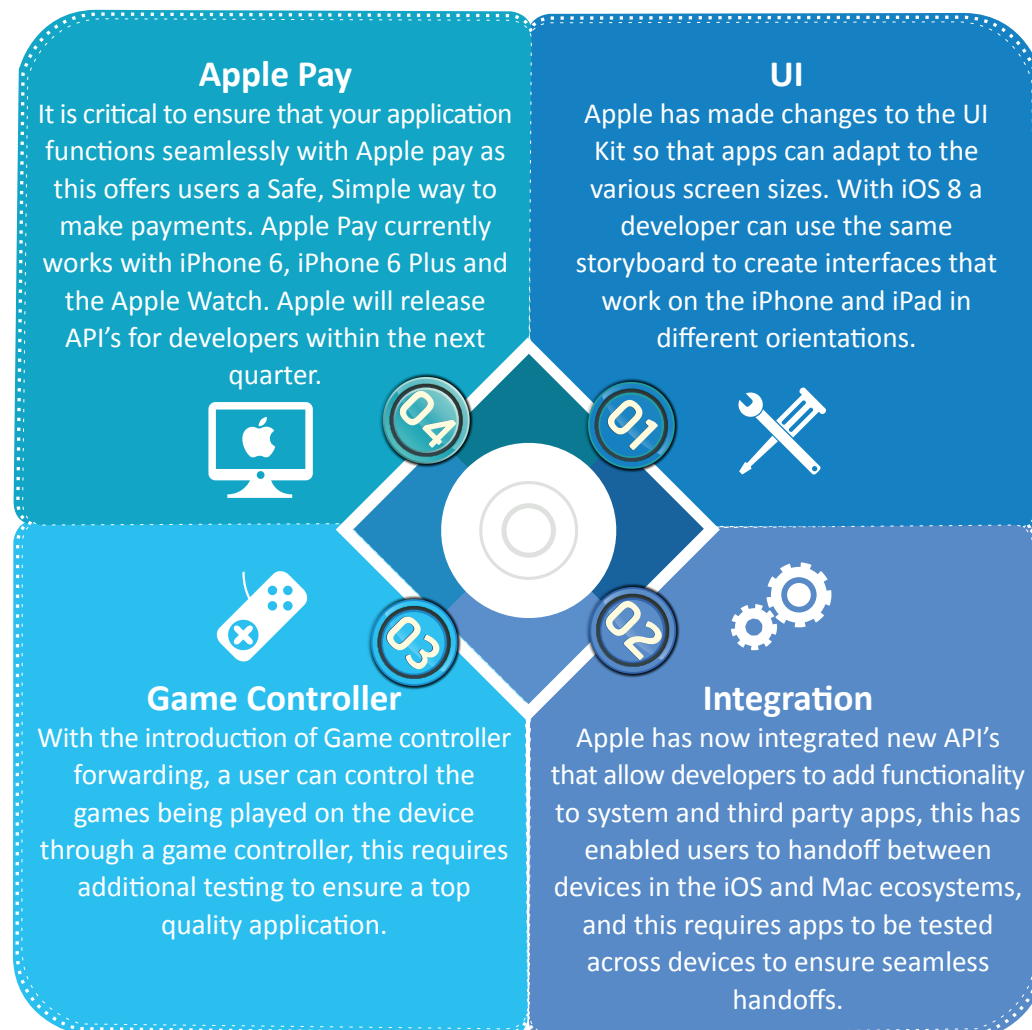
Apple has released 2 updates to iOS 8 in a few weeks, while iOS 8 had new features, iOS 8.01 and 8.02 were fix releases for problems caused by 8. Users in Australia were still reporting issues after their phones were updated to 8.0.2 OTA.

Apple users adapt to new versions of iOS faster than other users do for other platforms, Apple currently estimates that 94 % of its users have updated to iOS 7, this figure indicates that once issues with iOS 8 are fixed, the user adoption rate will be high, this makes it critical that your App be iOS 8 ready and tested to ensure functionality.

For the first time Apple has released phones with different screen sizes, Apple has given importance to apps that are compatible to the bigger screens than the smaller ones, if your app is not compatible with newer screen sizes then your users may leave lower ratings or negative feedback which will mean lower exposure in the App eco system. Historically apple has given higher exposure to the apps that are updated for the newer screen sizes.

While Apple claims that iOS 7 apps will work with the new phones because of its “Size Scalar Technology” developers are still being encouraged to update and leverage the 4000 new API’s that Apple has released.

We categorise the areas to be tested in to four areas UI, Integration, Games and Development, Apple Pay.



FAST FACTS

OS X Yosemite (the new operating system for Mac computers) and iOS 8 Are Designed to Work Together

Some iOS 8 Apps Aren't Working Perfectly Yet like OmniFocus 2 for iPhone and popular calculator app PCalc

Why Test Your App?

“App extensions, in particular, can be a developers dream, but can also turn into a testing nightmare”. If the app hasn’t been through the proper quality assurance processes, end-user experience will be significantly hindered, as they will be presented with an app that has flaws or fails entirely. “

Gartner estimates that 75% of today’s applications will fail basic security tests. With many enterprises now allowing BYOD as a policy, it is critical to ensure that your application is safe, secure & meets enterprise standards for them to accepted on enterprise stores.

With Apple releasing the following features that affect the user experience, testing your app assures your user an enriching experience and continue to delight them.

- **Two form factors – 4.7 Inch and 5.5 Inch**
- **Downloadable Keyboards**
- **Adaptive View Controllers**
- **Adaptive Presentations, Text and Tables**
- **Notifications and Widgets**

Ensuring continuing quality through regression and automated testing will ensure that your reputation as an organisation meets your user’s expectations.

CIGNITI’S TESTING STRATEGY FOR iOS8:

Cigniti understands the importance of iOS8 with its slew of new features. It is looking closely into these changes and test their existing iOS 7 and 6 apps on the existing beta versions of iOS 8 to assure that all of these new features have not introduced regressions to existing apps or made them unusable. It is prepared to run tests on all new features, modifications, tweaks and hidden features that can make iOS8 more sturdy, effective and efficient.

Few factors Cigniti considers when testing new iOS8

- ✓ A test environment must be flexible to support the addition of new devices and updates to operating systems. iPhone 6 brings two new screen sizes to the market, and UI testing is important to ensure apps are compatible with each screen size. It will be critical for mobile app developers to take their existing iOS 7 and iOS 6 applications that have not been configured for these formats and test them on existing beta versions as well as the upcoming GA version to assure all innovative features do not introduce regressions to the apps or compromise usability.
- ✓ With a multitude of new APIs and enhanced notifications that change the behaviour of apps, developers and testers must prepare greater device control during testing, which is likely to come in the form of springboard level control.
- ✓ Mobile app developers should consider the security tests needed for new applications running with the TouchID function.
- ✓ Functional testing is a must with any new operating system. In iOS8, pay particular attention to functional security testing. The new operating system will enable features such as the TouchID fingerprint scanner that is currently only available for limited lock screen and iTunes uses – to be accessed by custom applications through the developer API. While using it, make sure all the logic around forgotten usernames, password recovery, failed authentication attempts, and credential revocation are working as expected.
- ✓ Until the application is ready to be released, it should be put for performance testing constantly. One popular method used by scrum teams is to implement continuous integration – development and testing of the application are merged into one continuous effort.
- ✓ Some of the features in iOS8 take advantage of the new capabilities found in iPhone 6 and iPhone 6 Plus. Emulators are necessary in any testing strategy, but with iOS8 features it is important to test the application on real devices to guarantee a great user experience. Especially with Apple’s larger screen sizes and the Apple Watch experience (coming in 2015), using real devices alongside emulators in your testing strategy will give the confidence that the app is having the impact it should.



FAST FACTS

The 2 Biggest iOS 8 Issues Are Wi-Fi speed & connectivity Problems and Battery Drain

iOS8 takes up a lot of storage space and quite a while to install.

CONCLUSION:

Apple's iOS 8 isn't the drastic design change we saw in iOS 7 so there's no reason to worry about it completely changing the way you do things with your device. Instead, it makes a number of smaller refinements that will save you time, from the expanded options in the Messages app to better ways to search your photo library.

The NFC payment system through Apple Pay is one of the more exciting additions, but even with support from many of the big stores, it only works with iPhone 6 and 6 Plus and the Apple Watch. So, like many of the changes in iOS 8, we'll have to wait and see how it works in the wild and just how much people will use it.

Even with all the smaller tweaks, with this update Apple is partly playing catch up with Android and partly striking out on its own with new features. But as our smartphones have matured over the same time period, we're getting to a stage where there's not much left to add on to any smartphone platform. So the tweaks we're seeing seem to focus more on making things efficient while adding some new, unique features that will make daily use easier.

iOS 8 is definitely an improvement to almost every core app, and is a solid system upgrade across the board, but until we know how these other third-party-based features pan out and how people receive them, iOS 8's killer feature may still be on the horizon.

Lastly, Cigniti welcomes iOS8 with its host of new features and proudly says it will ensure your apps are iOS8 ready.

ABOUT CIGNITI TECHNOLOGIES

Cigniti Technologies is the World's 3rd largest Independent Software Testing Services Company, headquartered in Dallas, TX. With a team of over 1400 people, Cigniti operates out of 1,40,000 sq.ft. of office space spread across UK, US, India, Australia and Canada. Cigniti's test offerings include TCoE, Enterprise Mobility Testing, Testing on Cloud, Big Data Testing, Functional, Automation, Security and Performance Testing services. Over the last 15 years, Cigniti has helped Enterprises and ISVs across verticals build quality software while improving time to market and reducing cost of quality. Cigniti has translated its R&D into SMART Tools that accelerate testing and help improve the quality of services delivered to clients.

Cigniti is also the world's first Independent Software Testing Services Company rated at CMMI SVC1.3 maturity level 3 and is an ISO 27001:2005 certified organization. Cigniti has India's first of its kind Robotics Test Lab, HP co-branded mobile test lab and a world class performance test lab. Cigniti's CSR initiative Project Cignificance aims to impact 1 million+ lives through education as an enabler.

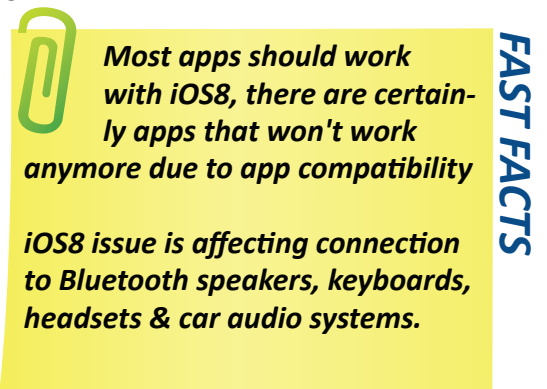
About the White Paper:

At Cigniti, research and development is an endeavor in pursuit of excellence in Software Testing. This white paper is an outcome of Cigniti's mission to build a better world by helping build better software. The content of this white paper is an incorporation of insights from the Mobile Center of Excellence and career testers with extensive experience in mobile application testing.

For more details write to info@cigniti.com

Disclaimer: The Apple logo & iPhone is a trademark of Apple Inc., registered in the U.S. and other countries. iOS 8 is the latest version of Apple's mobile operating system for iPhone, iPad and iPod touch.

FAST FACTS are taken from multiple blogs & stories covered in the media & internet and does not represent Cigniti's views.



FAST FACTS

Most apps should work with iOS8, there are certainly apps that won't work anymore due to app compatibility

iOS8 issue is affecting connection to Bluetooth speakers, keyboards, headsets & car audio systems.