



A Paper on Latest and Upcoming Smartphone OS

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Abstract— this paper presents a detail review on latest and upcoming operating systems like IOS 7 from Apple, Android 4.4 KitKat from Google and windows 9 from Microsoft Company. In this paper we have compared all the features, facilities, performance and verdict about these latest and upcoming operating systems.

Keywords— Mobile Operating System, Tablet Operating System, IOS, Android 4.4 KitKat, windows 9

I. INTRODUCTION

iOS 7 is the largest modify to Apple's mobile Operating System. Google releasing Android 4.4 under the name KitKat. Version 4.0 started life as Ice Cream Sandwich, but the last three decimal additions came under the Jelly Bean banner. Microsoft has declared that it is going to launch the new version of windows which will be known as Windows 9 in April 2015. The big reasons of announcing the new operating system in very short time period is because recently released Windows 8 and Windows 8.1 have not reached the goal so that fulfill all drawbacks of that operating system Microsoft launch Windows 9 .

II. IOS 7 OS

An iOS 7 is key unleash of the iOS mobile software system designed by Apple because the successor to iOS 6. iOS in the Car system, AirDrop, control center , night mode map system, join with free wi-fi hotspot automatically and smarter multitasking are just a few of the great new features in iOS 7.

A. Advanced Features

1). AirDrop

iOS 7 integrates Apple's wireless sharing feature bringing for the iPhone 5 onward, iPod bit (5th generation) onward, iPad (4th generation) onward, and iPad mini first generation onward.

2). Control Center

When swipe screen up from the bottom the control center is available and it provide access to setting like airplane mode, Airplay, AirDrop, media controls, brightness and provides shortcuts to lots of applications like clock, calculator, camera, built in flashlight, Bluetooth on off , lock the screen, and etc.

3). Multitasking

iOS 7 provides full multitasking for all applications. This layer provides previews of all running apps and also provides background updating of applications. This layer shows a screenshot of the total application instead of simply the icon.

4). Siri

This feature build free in 2014 and its uses Siri combination in restricted automotive models to supply hands free satellite navigation, eyes free, music, phone and internet Message are incorporated by the car's screen. iOS 7.1 indicted that iOS within the automotive may well be produce open within the final version of the 7.1 say up to now in January or Gregorian calendar month.

5) Maps at Night Mode

When you driving at night, sometime you do not want a bright white screen in your face. Apple's Maps application automatic adjusts based on the time and provide a dark interface so you do not blind yourself while you driving somewhere.

6). Join with trusted Free wi-fi Hotspots automatically

While set up a wi-fi hotspot, someone can theoretically set with the same SSID and hotspot and save all the information that gets sent through the network on a iphone. but iOS 7 makes so easy to joining free wi-fi hotspots much easy because not do anything at all. If you are in contact with wi-fi, iPhone will connect automatically and save.

III. ANDROID 4.4 KITKAT

Android 4.4 announced by Google, called Android Kitkat which is latest upgraded and world's most popular Smartphone operating system for Smart phones and tablets. Their names Android Kitkat come when it deals between Google and Nestle which make Kit Kat. Android 4.4 kitkat have lots of Updated feature like full screen album art, Calls,

Messaging and Productivity, improved multitasking, performance, wireless printing, email, immersive mode, and priority contact, improved Caller ID, integrated sms and mms and emoji on Google keyboard.

A. Updated Features

Android 4.4 kitkat have lots of Updated feature like full screen album art screen, Calls, Messaging and Productivity, improved multitasking, performance, wireless printing, email, immersive mode, and priority contact, improved Caller ID, integrated sms and mms and emoji on Google keyboard.

1). Full screen album art screen

It will display in a full screen format on the lock screen while you listening to music or playing games or streaming videos or audio songs via chromecast.

2). calls

The Phone app sits bottom left in the dock on your home screen and when you fire it up so you find that frequently contacted people are significantly displayed on the screen. At the very top there is a search bar for contacts and it is auto suggests when you type. There are three icons sit at the bottom (call log, dial pad, and you can add, import or export contacts and access call setting as a third icons sit)

In this operating system the caller ID system has also improved and it can automatically search for businesses numbers from the Google Maps.

3). Messaging

Google has decided to merge MMS and SMS messages into its Hangouts application and that is the biggest changes to the messaging system. So if the person you want to contact is online and signed into hangouts via Gmail, Google Talk or Google+ then that service you can use it. Now if they are not online and you have their number, so then you can use SMS.

This app keeps Hangouts message threads and SMS chat threads separate even if they are with the same person and also allows sharing your location which is for friends meeting and send files like animated graphics or make video calls.

4). Productivity

Today smart phones and Tablets use at common places so that it will be able to handle documents for that Google has included QuickOffice as a standard app with Android 4.4. Using this app you can create and edit word, Excel and PowerPoint files on your tablet or phone. Using Google Drive you can save files using the 15GB of free storage to the cloud. It is capable of opening PDF files and you can share any documents directly via email, Google Drive, Bluetooth and other cloud services.

5) Improved multitasking performance

Android 4.4 gives better system performance by optimising memory and also improving the touch screen so that it responds faster and more accurately.

6). Wireless printing

Android 4.4 KitKat have a new Cloud printing feature to simplify the procedure of printing a photos, documents or web page from your Android smart phone or tablet using wirelessly. So you will need to use a printer that is connected to HP ePrint printer or Google Cloud print Printer and other printers will support via apps in the Google Play Store.

7). Email

Email app improved by Android 4.4 and integrated some of the better features of Gmail. Emails are organized into nested folders; double up as checkboxes to select messages and contact photos are displayed. Also you can slide and email left or right to delete email through that enables you inbox faster.

8). Emoji on Google Keyboard

Android 4.4 KitKat brings Emoji characters to the default android Keyboard.

IV. WINDOWS 9

Microsoft has recently launched Window 8 and Windows 8.1 and now it is planning to launch Windows 9 which is Windows new upgrade version. Microsoft has declared that this new version of Windows will be launch at April 2015 which very quick. The big reasons of announcing the new operating system in very short time is because Window 8 and Windows 8.1 have not reached the target. Microsoft has been assumed that new operating system windows 9 will obey all the faults of the in recent times released Window 8 and Windows 8.1.

A) Upcoming Features

Discussion about the features of the Windows 9 we assuming that its feature will be more delectable and will try to prevail over the flaws of the other Windows. Some of the stupendous features in Windows 9 like the start button will be restored, auto mute option, the combination between Windows phone and windows RT will be improved, and trinkets of desktop will come up with some specific functions.

Windows 9 operating system will be meaningful notifications, multi-bootable and many more. Microsoft will focus on the need of Windows user, Windows phone and Xbox.

1) Restored Start Menu

Removal of the Start Menu in Windows 8 is confused to many people and they don't know where all programs are in the desktop. So don't worry this feature is set to come back.

2). Battery life Improved

Windows 8 and Windows 8.1 are big power consume on computers and Windows Mobile phone as especially when compared with Apple's OS.

3). improved syncing between Windows 9, Xbox and Windows Phone

Windows 9 has full give interactivity between Windows PC, Windows Phone and Xbox like iOS devices. So you could check your Outlook calendar while on the Xbox One. Lots of task remotely controlled by app on your phone, connecting to the Xbox and etc.

4). Metro Apps in Windowed Mode

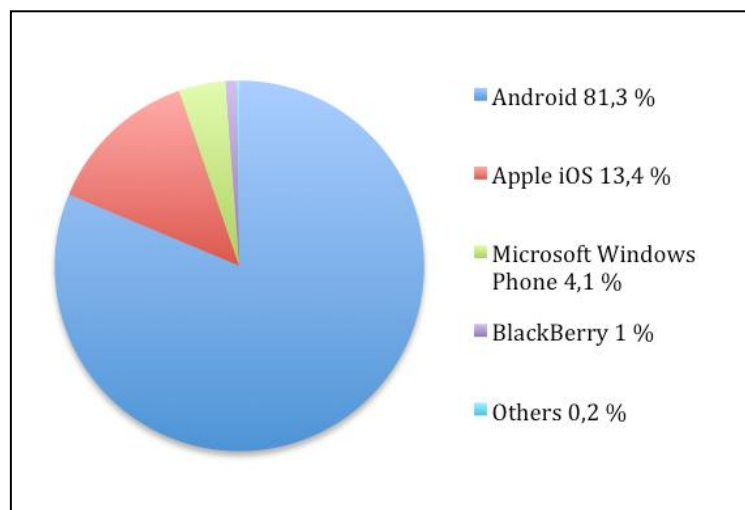
For download software, Microsoft wants everyone to use the Windows Store to download and buy but having metro apps that pop up in full screen and prevent you from doing anything else. You can also end up with two different versions of the same program in which one running in desktop mode and other running in Metro Mode and program neither talking with other.

V. COMPARISON OF MOBILE OPERATING SYSTEMS

TABLE I
COMPARISON OF MOBILE OPERATING SYSTEMS

Sr.No	Features	iOS	Windows Phone	Android
1	Company Name	Apple	Microsoft	Google/open Handset Alliance
2	Current Version	7.0.4	8 and Upcoming Windows 9	4.4.2
3	Version released Date	14 Nov 2013	14 Oct 2013 and for Windows 9 April 2015	9 Dec 2013
4	Smartphone OS market share	13.4%	4.1%	81.3%
5	Remote device location tracking	Yes	Yes	Yes
6	Non-English languages support	Yes	Yes	Limited
7	Emoji support	Yes	Yes	Yes
8	Accessibility features	Yes	Yes	Yes
9	Media player on-device playlist creation	Yes	Yes	Yes
10	Multitasking	Yes	Yes	Yes
11	Map at night mode	Yes	No	Yes
12	Join free wi-fi hotspots automatically	Yes	Yes	No

VI. MARKET SHARE CHART
FIGURE II
OPERATING SYSTEM MARKET SHARE DEC-2013



The percentage Market share of Android is 81.3%, Apple iOS 13.4%, Microsoft Windows Phone 4.1%, Blackberry 1% and others 0.2% respectively as shown in above figure 1.

VII. CONCLUSIONS

Apple iOS 7 has large numbers of new features to make your iPhone, iPad feel glossy and fresh all over again. Apple puts all the effort to make iOS 7 is solid upgrade to an excellent OS and catch up with market competition. Google Android 4.4 KitKat OS is the best mobile or Smartphone OS in the world today and from the market share analysis during December 2013 get 81.3% user use android 4.4 KitKat OS. Microsoft is planning to launch Windows 9 which is Windows new upgrade version. Microsoft has declared that this new version of Windows will be launch at April 2015 which very quick. This new operating system window 9 will obey all the faults of the in recent times released Window 8 and Windows 8.1 and put number of new features to make OS easy to use.