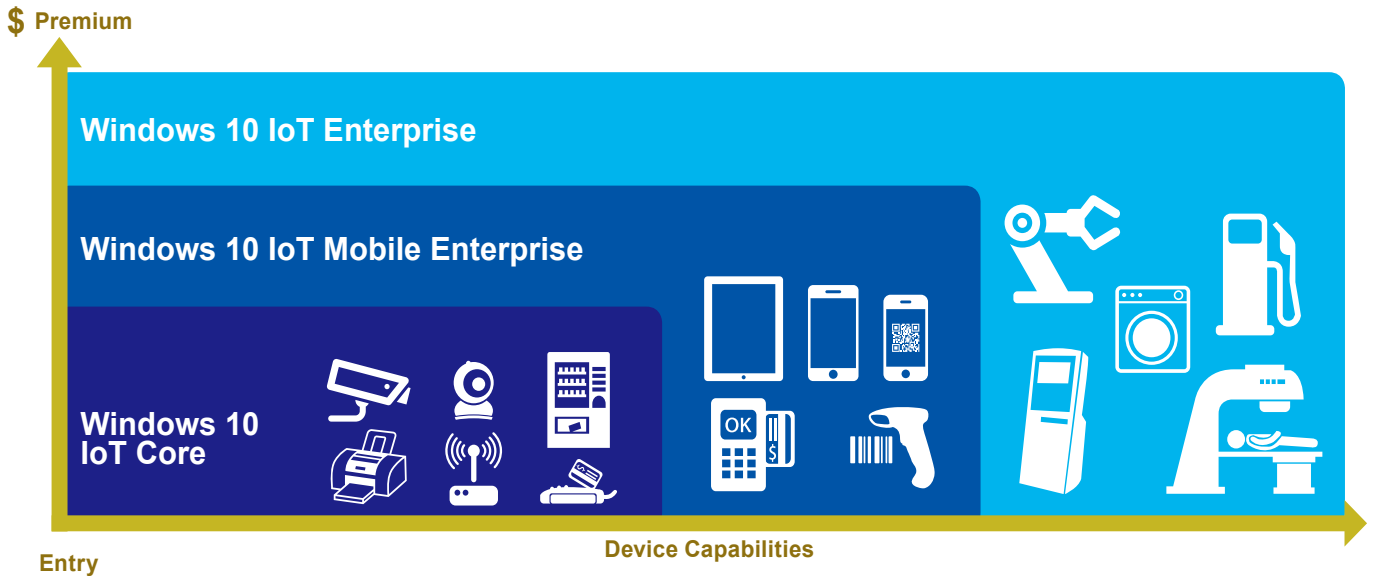# Microsoft Windows 10 IoT

Windows 10 IoT will power a range of intelligent, connected IoT devices. From small devices like gateways, to mobile point- of- sale to powerful industry devices like robotics and specialty medical devices, Windows 10 IoT offers a converged platform for devices with enterprise-grade security from the device to the cloud, and native connectivity for machine-to-machine and machine-to-cloud scenarios with Azure IoT Services.

One Windows Platform
Many different devices on Windows 10 IoT; One device management surface for all platforms

Industy Devices **Mobile Devices** **Small Devices**

One Windows 10 IoT Platform Technology
● MDM Stack and Servicing Stack Converged
● Common CSPs

Secure
Consistent and predictable device lockdown across form factors

Secure in Windows 10 IoT
Provide IoT devices with Advanced lockdown capabilities for an extra layer of security as well as a predictable device experience.

Connected
Build wireless connected small devices with Windows 10 IoT solution

Mobile Broadband (data only) **Wi-Fi**

Bluetooth/BLE **Connection Management**

Connected for all your Windows 10 IoT
● Windows 10 IoT AllJoyn device network

$ Premium

Windows 10 IoT Enterprise

Windows 10 IoT Mobile Enterprise

Windows 10 IoT Core

Entry

Device Capabilities

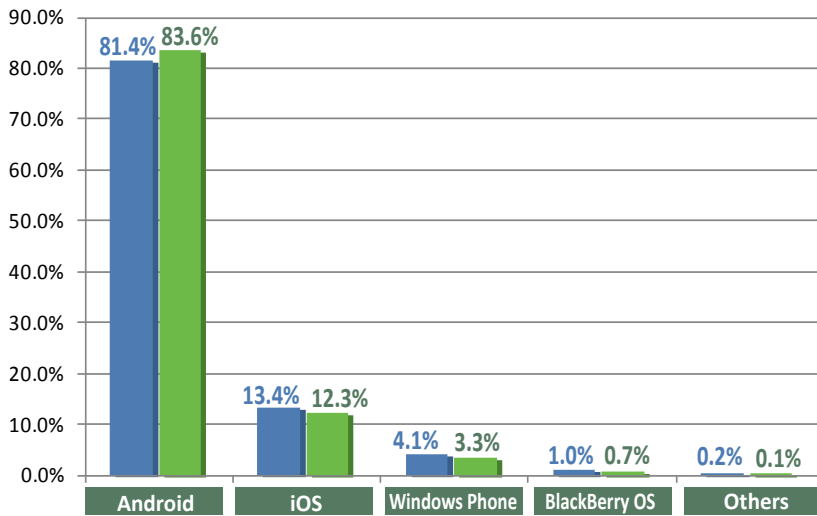| Microsoft Version	Windows 10 IoT Core	Windows 10 IoT Mobile Enterprise	Windows 10 IoT Enterprise
Target Platform	x86 or ARM base platform (no shell, universal windows apps and drivers)	ARM base platform (modern shell, universal Windows apps and drivers)	x86 platform (desktop shell, universal Windows apps and drivers)
Minimum Requirement	256MB RAM / 2GB storage	512 MB RAM / 4GB storage	1GB RAM / 16GB storage

Android for Industrial Embedded & Automation

Android with High-performance RISC SoC

Worldwide Smartphone OS Market Share
(2013 Q3 & 2014 Q4)

Legend: ■ 2013 Q3 ■ 2014 Q3

	Android	iOS	Windows Phone	BlackBerry OS	Others
2013 Q3	81.4%	13.4%	4.1%	1.0%	0.2%
2014 Q3	83.6%	12.3%	3.3%	0.7%	0.1%

Rate of Adoption

Version	Codename	API	Distribution
2.2	Froyo	8	0.4%
2.3.3-2.3.7	Gingerbread	10	7.4%
4.0.3-4.0.4	Ice Cream Sandwich	15	6.4%
4.1.x		16	18.4%
4.2.x	Jelly Bean	17	19.8%
4.3		18	6.3%
4.4	KiKat	19	39.7%
5.0	Lollipop	21	1.6%

Android		iOS		Windows phone		BlackBerry OS		Others	
2013Q3	2014Q3	2013Q3	2014Q3	2013Q3	2014Q3	2013Q3	2014Q3	2013Q3	2014Q3
81.4%	83.6%	13.4%	12.3%	4.1%	3.3%	1.0%	0.7%	0.2%	0.1%

Android Platform for Different Industries

The Android platforms are widely used since Android 2.3.4 was release in 2010.

Car Infotainment

Transportation

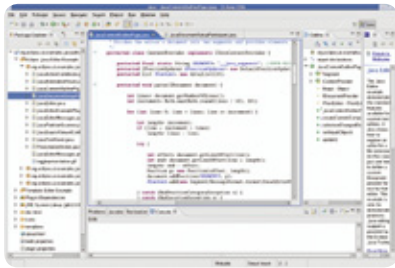Warehouse Management

IKARPC-07A-A9

MODAT-531

Android (Native) App Development
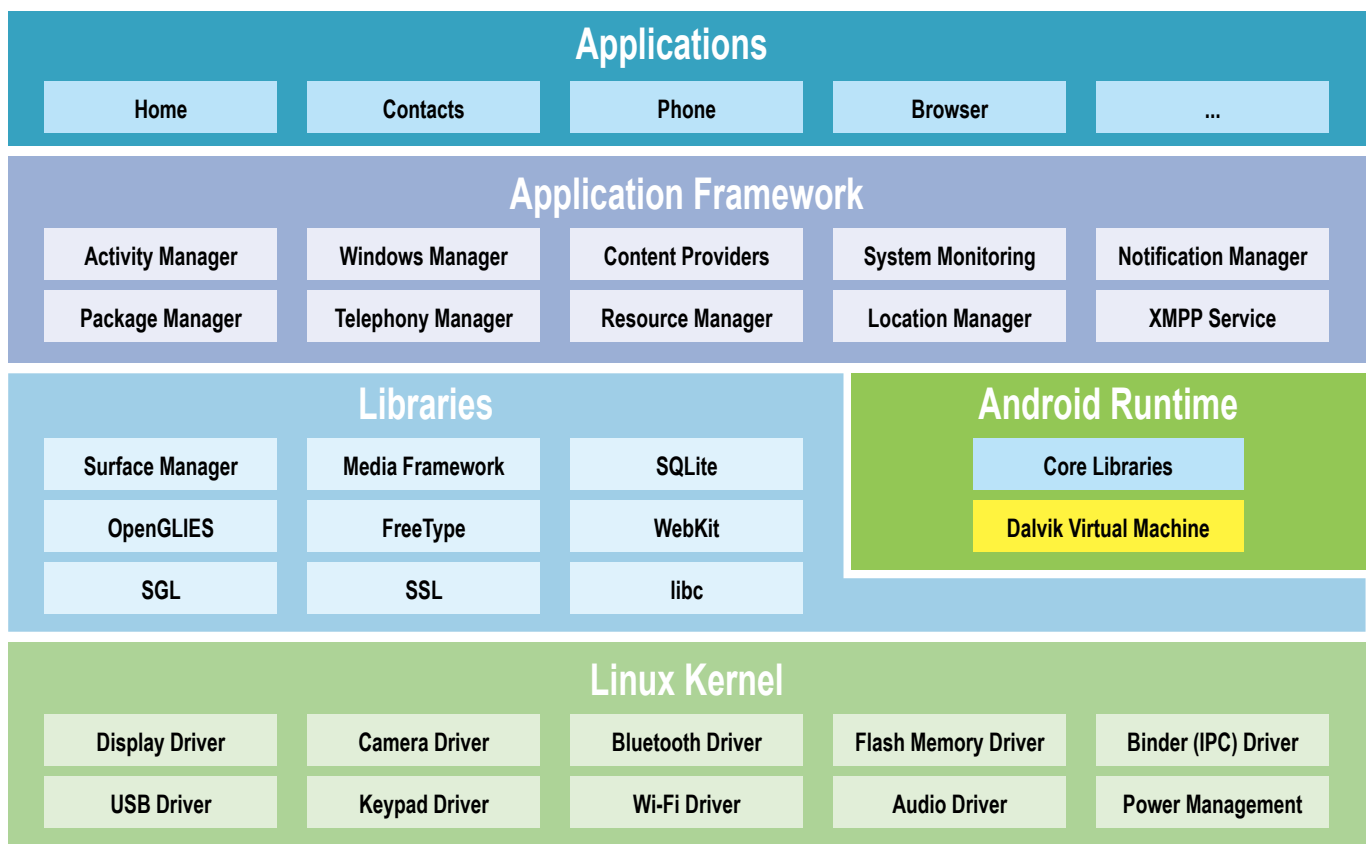

IDE for Java (eclipse)

Emulator

ADT Plug-in

Android Software Architecture

Applications				
Home	Contacts	Phone	Browser	...

Application Framework				
Activity Manager	Windows Manager	Content Providers	System Monitoring	Notification Manager
Package Manager	Telephony Manager	Resource Manager	Location Manager	XMPP Service

Libraries			Android Runtime	
Surface Manager	Media Framework	SQLite	Core Libraries	
OpenGLIES	FreeType	WebKit	Dalvik Virtual Machine	
SGL	SSL	libc		

Linux Kernel				
Display Driver	Camera Driver	Bluetooth Driver	Flash Memory Driver	Binder (IPC) Driver
USB Driver	Keypad Driver	Wi-Fi Driver	Audio Driver	Power Management

IEIMobile for Industrial PDA

Windows Mobile
MODAT-335

ANDROID
MODAT-531