



**Optimize My Day**  
**CERTIFIED DEVICES**

## **Optimize My Day - Concerning OMD Mobile**

Author:	Frank Klomp, Rainer Schroers
Creation Date:	July 24, 2012
Last Updated:	February 22, 2017
Document Ref:	<a href="#">Certificates</a>
Version:	Ver 1.8

**Confidential**

# 1. DOCUMENT CONTROL

## 1.1 Change Record

Date	Author	Version	Change Reference
24 JULY 12	Frank Klomp	Draft	Launching document
		version 1	
24 JULY 12	Rainer Schroers	Review	
24 JULY 12	Frank Klomp	Finalization	
5 MARCH 13	Rainer Schroers	Update	
13 APRIL 13	Rainer Schroers	Update	
24 MAY 13	Frank Klomp	Update	
27 NOV. 13	Rainer Schroers	Update	
16 JAN 14	Rainer Schroers	Update	
06 MAY 14	Rainer Schroers	Update	
10 FEBRUARY 15	Thomas Lukas	Update	
17 JUNE 15	Rainer Schroers	Update	
26 NOVEMBER	Rainer Schroers	Update	
08 APRIL 2016	Thomas Lukas	Samsung Galaxy S5 neo	
22 DECEMBER 2016	Frank Klomp	IDTRONIC C4 Red	
22 FEBRUARY 2017	Frank Klomp	Samsung Galaxy A5 + Galaxy A5 6	

## 1.2 Distribution

Copy	Recipient	Role
------	-----------	------

## 1.3 Reviewers

Copy	Recipient	Role
	Ernst Verbeek	Reviewer

## 1.4 Reference to (Linked) Documents

Doc No.	Document Name	Contained in	Owner
---------	---------------	--------------	-------



# CONTENT

1.	DOCUMENT CONTROL	2
1.1	Change Record	2
1.2	Distribution	2
1.3	Reviewers	2
1.4	Reference to (Linked) Documents	2
2.	INTRODUCTION	5
2.1	Introduction	5
2.2	Minimum Requirements	5
2.3	General Remarks	5
3.	SMARTPHONES	6
3.1	Short List	6
3.2	Google Nexus One	6
3.3	Google Nexus (i9023)	6
3.4	Samsung S II	7
3.5	Samsung XCover	7
3.6	Motorola Defy+	7
3.7	Motorola RAZR XT910	7
3.8	Samsung Galaxy S III I9300	7
3.9	Samsung Galaxy Xcover 2	8
3.10	LG Google Nexus 4	8
3.11	Samsung Galaxy S4 Active	9
3.12	Samsung Galaxy S4	9
3.13	Sony Xperia Z1	9
3.14	Samsung Galaxy S5	10
3.15	Samsung Galaxy Xcover 3	10
3.16	Samsung Galaxy S5 mini	10
3.17	Samsung Galaxy S5 neo	10
3.18	IDTRONIC C4 Red	11
3.19	Samsung Galaxy A5 6 (Model 2016)	11
3.20	Samsung Galaxy A5 6 (Model 2017)	12
4.	SCANNERS AND IMAGERS	13
4.1	Shortlist	13
4.2	IDTech Barcode Scanner	13
4.3	Koamtac KDC400	13
5.	ANDROID EMULATOR	14
5.1	Oracle VirtualBox	14
6.	MOBILE PRINTERS	15
6.1	Shortlist	15
6.2	Datamax O'Neil microflash 4te	15
7.	OPEN ISSUES	16
7.1	Samsung XCover	16
7.2	Koamtac KDC400	16

## 2. INTRODUCTION

### 2.1 Introduction

This document contains a list of devices that Optimize My Day has certified for usage with OMD Mobile. The list is maintained on a yearly basis, taking into account devices that have solid availability and reputation.

### 2.2 Minimum Requirements

- Android 2.2 or higher
- Resolution 420 pixels (portrait)
- Usage of battery may vary, depending on parallel usage of navigation or other battery-consuming applications. It is required to use a charger / car-kit in the vehicle, when using OMD Mobile in combination with navigation.
- Data traffic depends on amount of the volume of task and task attachments. Please consult us for details.

### 2.3 General Remarks

Consult [www.optimizemyday.com/requirements](http://www.optimizemyday.com/requirements) for an updated list of requirements for all OMD components.

Estimated prices are indicated without VAT.

Certified devices are marked **Certified**, devices that are not certified are marked **Not certified**.

Devices marked as **Tested** have been successfully tested in a laboratory environment. OMD Mobile has not been built to work in this environment, but may work with limitations. OMD will support customers with finding a workable solution in case of support issues.

## 3. SMARTPHONES

### 3.1 Short List

- Google Nexus One
- Google Nexus
- Samsung S II
- Samsung XCover
- Motorola Defy+
- Motorola RAZR XT910
- Samsung Galaxy SIII I9300
- Samsung Galaxy Xcover 2
- LG Google Nexus 4
- Samsung Galaxy S4 Active
- Samsung Galaxy S4
- Sony Xperia Z1
- Samsung Galaxy S5
- Samsung Galaxy Xcover 3
- Samsung Galaxy S5 mini

### 3.2 Google Nexus One

Light-weight device, without support for NFC. CPU speed is low, battery will service a full working day. A charger plug is advised for navigation.

Resolution: 480 x 800

Screen size: 3.7"

Estimated price: 300 €

OS: Android 2.1, upgradable to 2.3.6

Certification Status: [Certified](#)

### 3.3 Google Nexus (i9023)

Fully certified device with support for NFC. CPU speed is good, battery will service a full working day. A charger plug is advised for navigation.

Resolution: 480 x 800

Screen size: 4.0"

Estimated price: 300-340 €

OS: Android 2.3.6, upgradable to 4.1.1

Certification Status: [Certified](#)

### **3.4 Samsung S II**

Premium device with AMOLED screen and dual core processor. Does not support NFC scanning.

Resolution: 480 x 800

Screen size: 4.3"

Estimated price: 300-340 €

OS: Android 2.3, upgradable to 4.0.4

Certification Status: [Certified \(No NFC\)](#)

### **3.5 Samsung XCover**

Although a semi-ruggedized IP 67-certified device with good overall usage, the Samsung XCover does not provide the 480 pixel resolution in portrait as required by OMD Mobile. The HVGA resolution provokes some screens to be limited and less workable. The device is not certified for OMD Mobile.

Resolution: 320 x 480

Screen size: 3.65"

Estimated price: 200-240 €

OS: Android 2.3

Certification Status: [Not certified](#)

### **3.6 Motorola Defy+**

The semi-ruggedized device is a small device with IP level 67.

Resolution: 480 x 854

Screen size: 3,7"

*Estimated price: 200-240 €*

OS: Android 2.3

Certification Status: [Certified \(No NFC\)](#)

### **3.7 Motorola RAZR XT910**

Dual-Core device with Premium Materials and Premium Protection (aircraft-grade aluminum frame, Corning® Gorilla® Glass, strong advanced composite materials such as KEVLAR® , protected with a water-repellent nanocoating—including the electrical boards inside)

Resolution: 540 x 960

Screen size: 4.3"

Estimated price: 230 €

OS: Android 2.3.5, upgradable to 4.0.4

Certification Status: [Certified](#)

### **3.8 Samsung Galaxy S III I9300**

Premium Dual-Core device with 4.8" HD-Super-AMOLED screen.

Resolution: 720 x 1280

Screen size: 4.8"

Estimated price: 360 €

OS: Android 4.1.2

Certification Status: [Certified](#)

### **3.9 Samsung Galaxy Xcover 2**

The Samsung Galaxy Xcover 2 is IP67 certified and is the follow-up of the non-certified XCover. The XCover 2 has a dedicated camera key and a 1,700 mAh battery. The device has a 1 GHz dual-core processor, 1GB RAM and 4GB memory. The back/home/otion buttons are hardware buttons.

Resolution: 480 x 800

Screen size: 4.0"

Estimated price: 230 €

OS: Android 4.1.2

Certification Status: [Certified](#)

### **3.10 LG Google Nexus 4**

Snapdragon™ S4 Pro-Prozessor, NFC, wire-less charging, IPS

Resolution: 720 x 1280

Screen size: 4.7"

Estimated price: 300 €

OS: Android 4.2.2

Certification Status: [Certified](#)



### 3.11 Samsung Galaxy S4 Active

Samsung's Galaxy S4 Active is an Android 4.2, Jelly Bean, handset with LTE featuring a 5-inch, 1080p display, a quad-core 1.9GHz processor, and is resistant to dust and water down to one meter. The S4 Active has 16GB of built-in memory expandable via microSD, an 8-megapixel rear camera with a custom underwater mode, and a touchscreen that can be used while wearing gloves.

Resolution: 1920 x 1080

Screen size: 5.0"

Estimated price: 399 €

OS: Android 4.2.2

Certification Status: [Certified](#)

### 3.12 Samsung Galaxy S4

The Samsung Galaxy S4 features a Full HD Super AMOLED 5-inch screen; a 1.9GHz Quad-core Qualcomm Processor; 2GB RAM; Air View and Gesture; Smart Pause and Scroll; Infra Red remote; Temperature and humidity sensors and a 13 megapixel camera.

Resolution: 1920 x 1080

Screen size: 5.0"

Estimated price: 338 €

OS: Android 4.2.2 (4.4.2 via update)

Certification Status: [Certified](#)

### 3.13 Sony Xperia Z1

The Sony Xperia Z1 is a 5-inch waterproof Android smartphone with a 20.7-megapixel camera.

Resolution: 1920 x 1080

Screen size: 5.0"

Estimated price: 439 €

OS: Android 4.2

Waterproof body (IP55/58)

20.7 MP camera

Certification Status: [Certified](#)

### **3.14 Samsung Galaxy S5**

Networks: GSM, HSPA, LTE 800 / 850 / 900 / 1800 / 1900 / 2100 / 2600 (Model SM-G900F)

Resolution: 1080 x 1920 pixels

Screen size: 5.1" (129.4mm)

Camera: 16 MP, 5312 x 2988 pixels, phase detection autofocus, LED flash

OS: Android v4.4.2 (KitKat), upgradable to v5.0 (Lollipop)

Certification Status: [Certified](#)

### **3.15 Samsung Galaxy Xcover 3**

Galaxy Xcover 3 is a rugged Android smartphone which is dust and waterproof (IP67).

Screen size: 4.5" (114.3 mm)

Camera: 5 MP, LED-flash

OS: Android 4.4 KitKat

Certification Status: [Certified](#)

### **3.16 Samsung Galaxy S5 mini**

Galaxy S5 mini is the smaller version of the Galaxy S5.

Screen size: 4.5" (114.3 mm)

Camera: 8 MP

OS: Android 4.4.2

Certification Status: [Certified](#)

### **3.17 Samsung Galaxy S5 neo**

From marketing point of view the Galaxy S5 neo is a variation of the S5. Internally it has a different, but powersaving and fast 8 core processor allowing longer battery life with similar performance. It has a camera with comparable specs but the results are worse. The display is of similar quality as the S5's.

WiFi: 802.11 a, b, g, n, ac

Networks: GSM Quadband, UMTS (down 42,2 MBit/s, up 5,8 MBit/s), LTE 800, 1.800, 2.600, LTE-Advanced:300 MBit/s

Resolution: 1080 x 1920 pixels

Screen size: 5.1" (129.4mm)

Camera: 16 MP, LED flash

OS: Android 5.1.1

Certification Status: [Certified](#)

### 3.18 IDTRONIC C4 Red

The C4 Red is a rugged Android Handheld Computer with integrated UHF, HF or LF RFID reader and antenna.

WiFi: 2.4GHz/5.8GHz Dual Frequency, IEEE 802.11 a/b/g/n/ac

Networks: TDD-LTE Band 38, 39, 40, 41; FDD-LTE Band 1, 2, 3, 4, 7, 17, 20; WCDMA (850/1900/2100MHz); GSM/GPRS/Edge (850/900/1800/1900MHz)

WPAN: Bluetooth Class v2.1+EDR, Bluetooth v3.0+HS, Bluetooth v4.0

GPS: GPS(embedded A-GPS), accuracy of 5 m

Resolution: 720 x 1280 pixels

Screen size: 5"

Camera: 8 MP, LED flash

Various Readers (not part of this certificate)

Sealing: IP65

OS: Android 5.1

Certification Status: [Certified](#)

### 3.19 Samsung Galaxy A5 6 (Model 2016)

The Samsung Galaxy A5 (2016) is an Android smartphone and was introduced on December 2, 2015, along with Samsung Galaxy A3 (2016), Samsung Galaxy A7 (2016), and Samsung Galaxy A9 (2016).

The device has 2 GB RAM and 16 GB UFS 2.0 internal storage, with support for removable microSD cards of up to 128 GB. The device's microSD card slot has been designed to allow insertion of a SIM card and can also be used in Dual SIM mode.

The device includes a fingerprint sensor.

The Samsung Galaxy A5 (2016) runs Android 5.1.1 Lollipop right out-of-the-box. Samsung has released the Android 6.0.1 Marshmallow update.

WiFi: 802.11 a/b/g/n 2,4 + 5GHz, HT40

Networks: GSM 850 MHz, GSM 900 MHz, DCS 1800 MHz, PCS 1900 MHz, UMTS (3G) B1 (2100), B2 (1900), B5 (850), B8 (900), 4G FDD LTE B1(2100), B3(1800), B4(AWS), B5(850), B7(2600), B8(900), B20(800), 4G TDD LTE B40(2300)

WPAN: Bluetooth v4.1

GPS: GPS, Glonass

Resolution: 1920 x 1080 pixels

Screen size: 5.2"

Camera: 13 MP, LED flash

Capacity: 2900 mAh

Memory: 16 GB

OS: Android 5.1.1

Certification Status: [Certified](#)

### 3.20 Samsung Galaxy A5 6 (Model 2017)

The Samsung Galaxy A5 (2017) is an Android smartphone and was announced on January 2, 2017, along with Samsung Galaxy A3 (2017) and Samsung Galaxy A7 (2017). The device runs Android 6.0.1 Marshmallow and has 32 GB internal storage, expandable to 256 GB via a MicroSD slot which can also be used for a second Nano-SIM. The device retains a non-removable battery.

WiFi: 802.11 a/b/g/n/ac 2,4 + 5GHz

Networks: GSM 850 MHz, GSM 900 MHz, DCS 1800 MHz, PCS 1900 MHz, UMTS (3G) B1 (2100), B2 (1900), B4 (AWS), B5 (850), B8 (900), 4G FDD LTE B1(2100), B2(1900), B3(1800), B4(AWS), B5(850), B7(2600), B8(900), B17(700), B20(800), B28(700), 4G TDD LTE B38(2600), B40(2300), B41(2500)

WPAN: Bluetooth v4.2

GPS: GPS, Glonass, Beidou

Resolution: 1920 x 1080 pixels

Screen size: 5.2"

Camera: 16 MP, LED flash

Sealing: IP68

Capacity: 3000 mAh

Memory: 32 GB

OS: Android 6.0.1

Certification Status: [Certified](#)

## 4. SCANNERS AND IMAGERS

### 4.1 Shortlist

- IDTech Scanner
- Koamtac KDC400

### 4.2 IDTech Barcode Scanner

This external barcode scanner device can be attached to a smartphone through a Bluetooth connection. The device is small, light and scanning is fast. The device integrates into the OS as a selectable keyboard. OMD Mobile Build 63 or higher allows the selection of the keyboard being one of the two sources for capturing barcodes, the other being the camera (default).

Estimated price: 200-240 €

OS: unknown

Certification Status: [Certified](#)

### 4.3 Koamtac KDC400

This scanner requires a custom-case per mobile device, allowing the device to be attached to the back of the smartphone. It comes with an integrated battery. The device has issues with setting up a Bluetooth connection.

Estimated price: 320 €

OS: unknown

Certification Status: [Not certified](#)

## 5. ANDROID EMULATOR

### 5.1 Oracle VirtualBox

Although not advised by OMD, it is possible to use functionality of OMD Mobile on an Intel-based PC or notebook with Windows 7 or higher installed by using an emulator.

Android Emulations on Windows include Bluestacks, Windroy, Genymotion, Google Android Development Kit and others.

The tests performed by OMD were based on Oracle VM VirtualBox Emulator. It requires a virtual appliance of an Android system (based on an Android ISO image which can be obtained from [www.android-x86.org](http://www.android-x86.org)). Once the Android emulation is running, OMD Mobile can be installed from the web by using the built-in Android web browser.

The configuration used during the tests was:

- Oracle VM VirtualBox 4.3.6
- Android x86 ISO image androVM\_vbox\_4.1.1\_r6.20130222
- Windows 7
- Panasonic ToughBook CF-19

The following list are some restrictions/conditions:

- it is not possible to use the camera feature
- it is not possible to use the barcode scanner feature
- it is not possible to use the phone call feature
- it is not possible to use the maps feature
- it is not possible to use the navigation feature
- mobile printing is not possible
- Use of GPS or network location is not possible

We advise to use a notebook with a touch screen or pen, although using the mouse or a touch pad is technically feasible.

Note that the Windows Power Management has to be adapted to turn sleep mode off. Otherwise, captured data will be corrupted.

The notebook has to be equipped with a SIM slot for cellular data connections if used within a mobile environment.

OMD does not support the emulator software itself.

Estimated price for VirtualBox: free of charge, Open Source

OS: Windows 7 or higher

Certification Status: **Tested**

## 6. MOBILE PRINTERS

### 6.1 Shortlist

- Datamax O'Neil microflash 4te

### 6.2 Datamax O'Neil microflash 4te

Mobile label printer, monochrome, direct thermal, Bluetooth

Estimated price: 480 €

OS: unknown

Certification Status: [Certified](#)

## 7. OPEN ISSUES

### 7.1 Samsung XCover

Some screens of OMD Mobile have been adapted to support the smaller screen size, particularly the signature screen. Nevertheless, the XCover has not been certified for production use due the screen size being smaller than 420 pixels in portrait.

Samsung has released a XCover 2 model, with a 480 x 800 resolution, which is certified.

### 7.2 Koamtac KDC400

This device was connected once or twice to an Android device, but lost the connction very quickly. We were not able to re-connect the device. This may have to do with settings, but will require additional effort and support of the vendor.