



## WHITE PAPER

# Mobile + Bluetooth = Smart World

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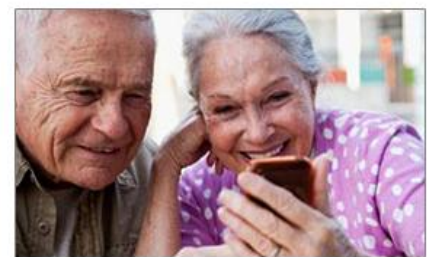
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# Smartphone apps to control Bluetooth devices

## Introduction

Smartphones have given way to ubiquitous computing in the ways that world has never seen before. With the computing power equivalent of desktop computing machines and their far reaching spread, smartphones have become the de-facto personal computing device. Along with tablets, mobile devices have revolutionized the world's computing landscape and widened the technology adoption across the globe.



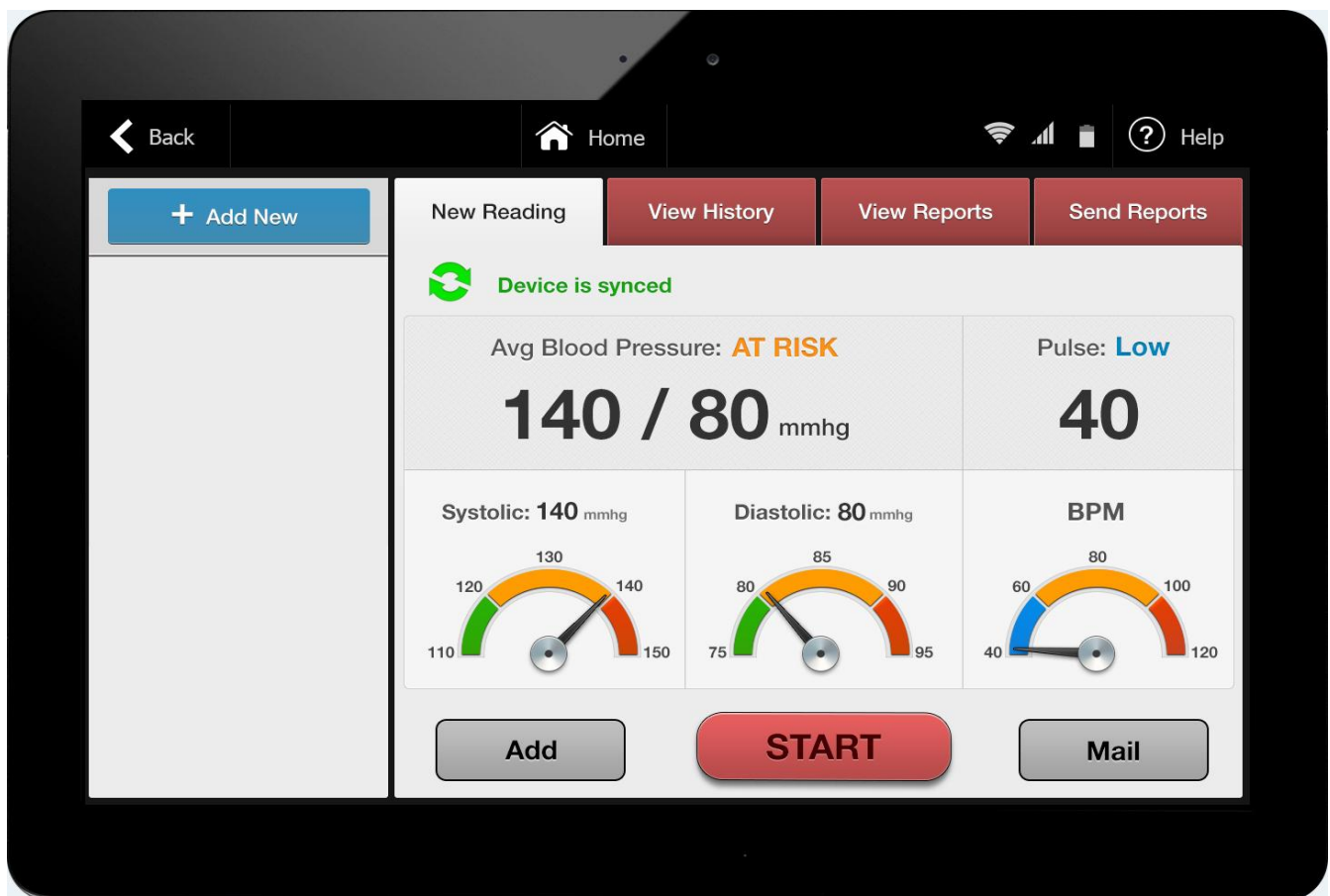
## Existing systems

As prices of electronic components head downwards, numerous possibilities have opened up in everyday computing. Lot of simple gadgets are being created and used for wide range of applications. These gadgets perform everyday tasks and many of them still use LCD panels for interaction with their users.



## Business Need

These gadgets generate tremendous amount of data and this is getting lost because there is nothing which will track the data and analyze it. Can we do something better? The answer lies in integrating these systems with smartphones. By creating apps, these gadgets can extend their purpose by providing history tracking, easier controls, data processing features, and by providing beautiful intuitive interface.



## Case Study

### Medical Equipments

Let's take a case study of a simple device which is used to monitor blood pressure. With the panel to store information, user can only see the blood pressure at that instant. However, when we create an app and integrate the device via Bluetooth, we can store the records of each day. The data can be processed, and used by patients. Thus, a simple device transforms into a personal blood pressure assistant.



There are many such devices; glucose monitors, portable sonography machines amongst others which are still using analog devices to display their content and these vendors can benefit with smartphone integration.

### Electronic Appliances

Devices that monitor the factory environments, washing machines, microwaves etc. still use a LCD display with mechanical buttons. With Bluetooth integration, these devices can be monitored and operated using a mobile device.



## Robotics

Another example of such a device is a robot. If you can build the robot, we can make it dance to our tunes, literally!



## Wearable computing

Wearable computing devices is the future of computing. Google glass is one approach in which the wearable device will work in isolated fashion. However, there is a huge need of wearable computing devices which will connect with our core computing devices and provide relevant information. Bluetooth integrated wearable devices fill this gap. They are smart enough to cater to your needs, and use only enough power to consume the data generated by your computing horsepower i.e. your smart-phone.

An example of such a device is a smart watch which communicates with Android phones. When you are running and want to check the distance you have covered? Or you want to check if you have got any new messages? Smart devices do these small tasks with minimum fuss without opening your phone. Similarly a smart car dashboard will display the navigation by getting the path data from the phone.



## Solutions

How can we help?

### If you are gadget/appliance manufacturer

- We can build the Android interface and the smartphone app that will be fun and easy.
- You can control your gadget from Android phone/tablet.
- Store and process data on phone which was never possible with your gadget earlier.
- Optionally send the data to you through internet so that you can provide additional services to your consumers.

### If you are creating a wearable computing device

- We can provide the interface between the device and phone with a secure and fast communication protocol.
- We can receive the commands from device to fetch content, find and send it to the device.

### Mobisoft Key Expertise

- Multiplatform Bluetooth Integration
- Android OS customization
- Experience of applications involving Bluetooth integration (Bluetooth chat)
- Professionals with the experience of hardware software integration

## About Mobisoft

Mobisoft Infotech is an award-winning company based out of Houston, Texas, USA. We help enterprises achieve their business goals by defining their mobile initiatives and reaping benefits from mobility. We understand the opportunities and challenges enterprises face with mobility today which is characterized by constant innovation and rapid changes.

Our team of discovery experts focuses on cloud solutions, mobile strategy, cross-platform development and content publishing. We work on all major platforms with special emphasis on iOS and Android app development and have built over 170 successful apps. Our clients are based globally and represent key industries who have highly contributed to our strong and diverse portfolio.

**Disclaimer:** The devices shown in this whitepaper are for illustrative purposes and Mobisoft does not claim or hold any rights on these devices.