From: Robert Fennell 5/2/16

To: Dr. Shankar

Subject: Addendum to meeting held May2, 2016 about team 2 Sleep Sense app.

1. We were able to access information through the” sense” product and call it from our own program given we did it on a machine that was had a registered use program with them. We could only do this on Samsung products, it did not load onto Nexus 7. The sense machine and seep pill can be reached at <https://hello.is> That is their general web and sales site The internal code package: is.hello.sense. you need to download an app (Google play store) in order to set up and use the sense to access the cloud and the sleep pill. I messaged the company and asked for access to data but they said not at this time maybe in the future. System Info Pro for Android had more information but I do not know how to hack their code.

Set up Sense

Inside the box, you'll find:

* Sense
* Sleep Pill
* Sense Power cable
* Sense adapter
* 2 Hello stickers
* Get Started card
* Safety instructions

**Download the Sense App**

To begin, open the Sense app on your mobile device. If you haven't downloaded the Sense app, see [Download the Sense app](https://support.hello.is/hc/en-us/articles/205152015-Download-the-Sense-app).

**Sense App**

When you open the Sense app for the first time, you'll be asked to create an account, provide some information so that Sense can provide you with personalized sleep insights, and set a few preferences. You can follow along with these steps:

1. Open the Sense app, and tap Get Started.
2. Tap Set Up Sense
3. Input your name, email address, and create a password for your Sense account. Make sure you make a note of your password, and keep it in a secure location.
4. You'll be asked for some personal information like birthdate, gender, height, and weight, so that Sense will be able to provide you with more personalized sleep insights.
5. Setting your location will allow Sense to know local sunrise and sunset times, weather, and more.
6. Enabling notifications will let Sense notify you with important messages about your sleep, bedroom, and deliver your Sleep Score each morning.
7. Enabling enhanced Audio enables Sense to pick up noise during your sleep, like snoring, sleep talking, or even loud traffic.
8. Once your account and preferences have been set up, you'll be ready to set up Sense.
9. Place Sense somewhere close to your bed, like your nightstand. Plug the small end of the power cable into Sense, and plug the USB side into the Sense adapter. Do not use any other USB power adapter.
10. Sense will play a short welcome tone, and begin to glow purple, letting you know that it is ready to pair with your device.
11. On the Sense app, tap Continue. After a few moments, your device will prompt you to pair with Sense.
12. Select your WiFi network, and enter your password if necessary.

**Sleep Pill**

With Sense set up and paired, it's time to pair your Sleep Pill.   
*If you've purchased a second Sleep Pill for your partner, set it aside for now. We'll pair the second Sleep Pill later.*

1. On the Sense app, tap Continue.
2. When prompted, hold the Sleep Pill in your hand and shake it quickly for three seconds. The Sense app will let you know when the Sleep Pill has paired successfully.
3. Attach your Sleep Pill to your pillowcase on the side closest to the edge of your bed. You may need to pull your pillowcase taut between two hands.
4. Also look at Automatic Audio Recorder, and app that went on my phone. It did a good job of recording noises at night and the data was stored on the unit for easy access and could be replayed. Noise activated.
5. We did not have the shield to tie together the shield to connect to a Pi Raspberry computer. I did buy the computer and a shield but they would have to have been attached with cables which we also bought. I did get the computer up and running and we were prepared to build our own sensor kit from scratch. We need a special op amp with low frequency suck out and were going to measure either breathing, muscle movement or brain waves. Turns out, activity sensors that measure sleep movement already existed and could be bought. This would simulate what we had in mind and it worked.