# Tech To Protect Contest 001 - Guardian Network Security Dashboard

Project by:
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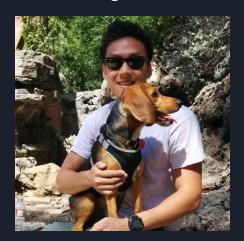
## Submission Summary

11032019 - Contest 001 - In Person

Guardian OTG(on-the-ground), Guardian Dispatch, and Guardian Euno are the three components that form the ultimate network security system. Guardian OTG will allow on-the-ground first responders to get a glimpse of their network security with an easy to use native mobile app. Guardian Euno is the backbone of the operation, a back end service that will allow dispatch to receive information regarding the network integrity of connected clients. Finally, Guardian Dash, a web-based dashboard, allows dispatch to make sure all first responders have a healthy network connection. This AIO(all-in-one) solution was built on top of a real time communication protocol along with a fast and reliable message queueing transport.

### Who are we?

#### **Jason Huang**



Systems Architect Also, an avid cyclist (yes, I stop at stop signs)

#### **Andrew Struck-Marcell**



Mobile App Developer Also, a trained music composer!

## Addressed Requirements

The Guardian system allows for real-time bi-directional communication between personnel on the ground and command center agents. Guardian's robust message queueing system will never miss a beat, ensuring that all messages are received from every direction. The built in network security engine will notify command center agents of anomalies happening on the ground. SafeNet, a protocol that will identify if a user goes dark, will notify nearby personnel and the command center that the user is in danger.

## ScreenShots - Mobile Status Dashboard App

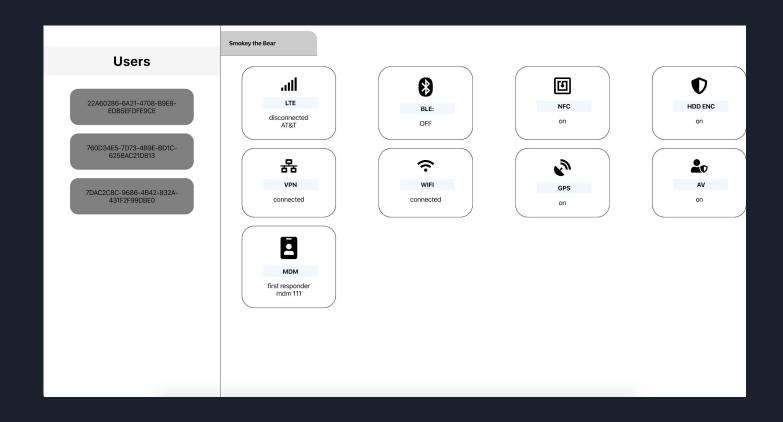








## ScreenShots - Dispatch/Command Center Dashboard



## Overview - Key Functions

- Unique mobile phone identification process -> pub/sub/ack
- Reliable messaging transport
- Bi-directional and real-time communication protocols
- Easy to use with gloves on
- Bright and intuitive user interface

Github repository: <a href="https://github.com/jasonh9/TTP\_360View">https://github.com/jasonh9/TTP\_360View</a>