Try Safety First, Inc.

Distraction Prevention & Safety Protocols for Mobile Phones©

White Paper

Throughout the world, mobile phones have become a ubiquitous part of everyday life. Moving fast forward, technology has travelled from our desktop to our laptop and now to our handheld device. The enormous proliferation of the mobile phone is magnifying quicker than any other industry ever seen. And with every great sensation, human behavior often finds a way to cast shadows of darkness. The cell phone is no exception as many inherent life threatening problems are also gaining light speed momentum.

Mobile phone distractions are well documented problems in the following areas:
Prisons - #1 smuggled contraband. Gang warfare and illegal activities are carried out.
Highways - #1 cause of accidents and leading killer of teen drivers.
Classrooms - #1 problem in our schools due to class disruption, cheating, and bullying.
Court rooms - jury tampering, jury box research, jury boredom, jury social media.
Airplanes - terrorists can detonate a bomb using the cell phone.
Hospitals - mobile phones are forbidden in ICU's due to equipment malfunction.
Churches - #1 disruption.
Theatres - #1 disruption.

TECHNOLOGY OBSTACLES - A handful of companies have come to the fore-front to become a solution provider for a few of these problems, most notably problems in our prison systems, behind the wheel, and in our schools. NONE withstanding, each and every one of them face impenetrable obstacles such as: current law, uninstalling the application, turning off the Bluetooth, GPS latency and signal lapses, large number of varied mobile platforms, continuous updating, closed platforms, battery drain, and single phone to vehicle pairing.

FREQUENCY JAMMING IN PRISONS: In addition to the **enormous cost** and possible **violation of law**, TSF does not believe frequency jamming is a viable solution due to the **inability to jam skype internet and satellite phones**. Ireland discovered this the hard way after wasting millions of dollars of taxpayer money (See attached article titled Inmates Foil Mobile Phone Blockers and corresponding Frequency Band Chart). While low level frequency band jamming has proven successful on low frequency phones, continuous jamming at the higher frequencies necessary for disabling skype and satellite phones presents many **potential health hazards and outside area molestation issues**. Expensive in years past, Satellite phones can now be purchased for only $149. These prices will decrease even more as the new satellites are placed into orbit in 2011 and 2012. The new Apple Iphone 4 and some Blackberry models have Skype built in.

While better than nothing, TSF does not believe **MANAGED ACCESS or DETECTION** are the best solutions due to the need for constant monitoring and the **inability to detect, confiscate and prevent** many of the illegal activities prior to the **directives being carried out**. It is also the opinion of TSF that neither Managed Access nor Detection will actually deter inmates from attempting the act of obtaining the illegal cell phones. On several occasions, it has been discovered the prison vendors and prison guards have been the source of illegal cell phone entry.

SOLUTION - The question facing us today is do we let the problems currently considered pandemic become endemic. **TSF has developed and proposes a set of distraction prevention and safety protocols to be embedded into the firmware as a universal standard for all mobile phone devices.** Try Safety First also proposes bluetooth technology to be included in all mobile devices similar to enactment of the V-Chip technology in TV sets. **The protocols instruct the phone how to behave when in protocol specific environments containing a corresponding active Bluetooth sensor.** The prisons will be outfitted with these low cost, low energy corresponding sensors. NOTE: Neither prison official offices nor base station guard walkie-talkie handsets will be affected.

Examples of Sensor Specific Environments - All mobile phones will automatically behave when in protocol sensor specified environments. i.e. all cell phones in a prison will shutdown; in the driver's area of a transit bus will automatically go to sleep; in the driver's seat of a car, the texting and email functions will be inhibited and only hands-free Bluetooth will function; in a classroom the instructor could use the phone as a teaching tool for part of the class, then flip a switch to put all phones to sleep when giving a quiz, and so on as shown on page 3. Because the protocols will be embedded into the firmware, they cannot be uninstalled nor turned off. The protocols will be hack proof sum check protected and part of the OS.

COST OF JAMMING, MANAGED ACCESS & DETECTION - MILLIONS. The cost of equipment, training, monitoring and maintenance for Jamming, Managed Access and Detection all come with a healthy price tag. Has there been any discussion as to where this money is going to come and who is going to pay for it?

COST OF TSF PROTOCOL ADOPTION - ZERO. TSF proposes a flat monthly protocol fee of $1 per phone. The revenue generated will more than offset the necessary expense outlay to outfit the prisons, schools, court houses and public transportation vehicles with their respective protocol sensors. The cost to the automobile manufacturers will be less than $10 per vehicle which they can pass on without a problem. We can look at this from more than one angle. First, it can be understood as an insurance reduction far greater than its cost. A large part of insurance is based on locality and total loss outlay. In 2008, according to the DOT, more than 43 billion dollars was spent on cell phone related accident claims (most studies believe that figure to be largely under-stated as many go unreported). Divide that number by the number of drivers and theoretically all drivers could receive that discount.

Another way of looking at it would be to let the Congressional Budget Office perform the calculation. According to the World Health Organization, losses (including damage claims, fire and police dispatch, injuries and loss of wages) from distracted driving accidents total between 1 and 3 percent of GDP. Even on the low end this would be 146 billion dollars for the United States. Eliminating this monumental expenditure outlay would mean savings any way you add it up, and far greater than the minimal $1 monthly protocol fee.

FOLLOW THE LEADER - TSF believes each and every industrialized country is eager to find a solution for these problems. Protocol standardization in the United States is certain to stimulate worldwide universal adoption.

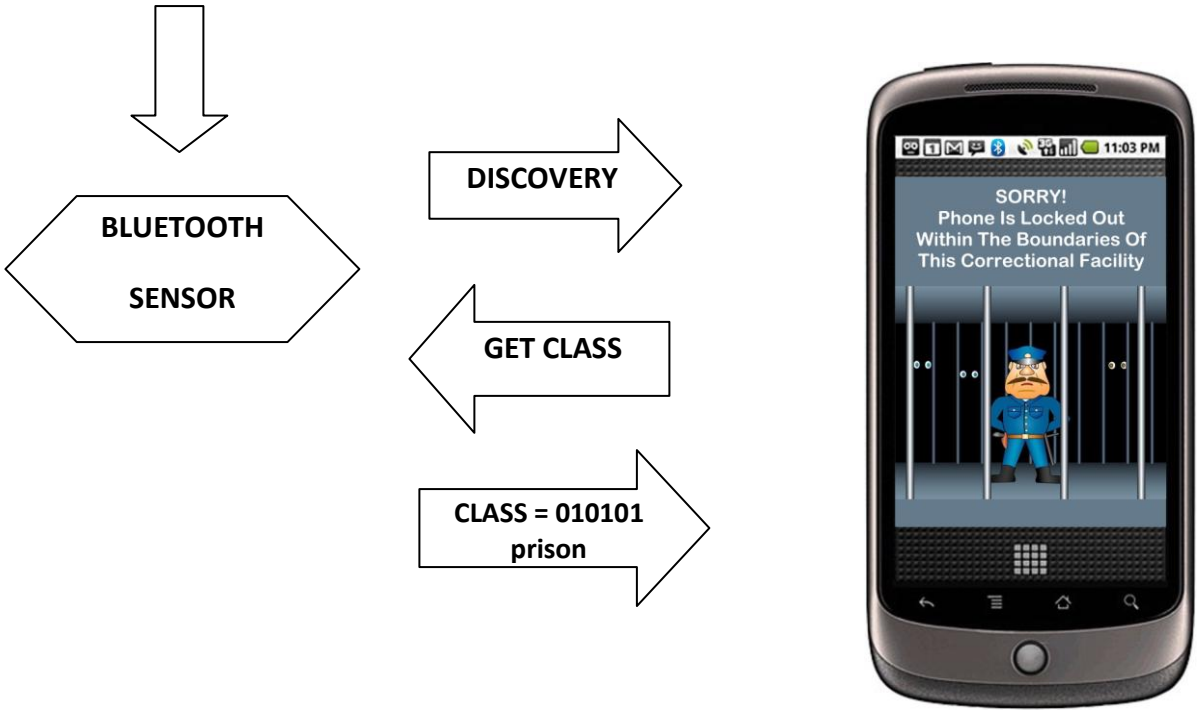
ESTIMATED TIME TO COMPLETE - Since the average cell phone life is 12-14 months, within a very short time frame (approximately 2 full cycles or 24-28 months), there can be a definitive simple solution to all the above mentioned problems.

AUTOMATED PROTOCOL BEHAVIOR

IMPORTANT NOTE: Pilots, teachers, and judges can flip a switch to enable all functions. Except for prisons, all Parental & Emergency 911 Calls Can Always Be Made.

NAME	CLASS	ACTION
dpp.prison©	prison	disable
dpp.car©	vehicleA	inhibit text & email
dpp.teencar©	vehicleT	sleep
dpp.school©	class rm	sleep
dpp.court©	court rm	sleep
dpp.airport©	airport	sleep
dpp.plane©	fly zone	disable
dpp.icu©	hospital	disable
dpp.church©	church	silence
dpp.theatre©	theatre	silence
dpp.reserved©	TBA	TBA

Active Bluetooth Sensor Communicating with Distraction Prevention Protocols



For more detailed information on Distraction Prevention & Safety Protocols, contact John Fischer at 770-652-4517 or john.fischer@trysafetyfirst.com