

Ignition Interlock and Alcohol Monitoring Technology



Setting the Standard in Alcohol Monitoring Technology®

Overview

- Interlock has been around since the 80's
- Research has proven interlocks effective in reducing DWI recidivism 50% – 90%
- Ignition interlock programs currently in use all 50 states in the U.S.
- Approx. 54,000 Interlocks in use in TX
- 89,539 DWI's reported in 2017 (TDPS)
- 17 Texas Interlock Manufacturers; 25 Interlock Devices
- 580 Interlock service centers in Texas

Background

- The first state ignition interlock pilot program began in California in 1986.
- MADD launched the Campaign to Eliminate Drunk Driving in 2006.
 - 100,000 interlocks installed in the United States.
 - 2017, there were nearly 349,000 interlocks in use.
- Today, 33 states plus Washington, DC require or highly incentivize the use of an ignition interlock for every convicted offender.

What is an Interlock?

- An electronic device wired into the ignition system of a vehicle which requires the user to pass a breath alcohol test in order to start the vehicle.
- AKA: Breathalyzer, Interlock, BAIID, IID
- Requires a breath sample, fail level determined by state, In Texas .030 (BrAC) breath alcohol content to pass.



Texas Law

- **Bond** – 1st offender or BAC .15 or higher- Judicial discretion
2nd and Subsequent DWI offender
Intox Assault and Intox Manslaughter
- **Probation** – 1st offender with BAC .15 or greater
All 2nd and subsequent offender under 21 1st offender
Intox Assault and Intox Manslaughter
- **Occupational** - All offenders; in lieu of hard suspension,
Allows Immediate driving privilege – no route restrictions
- **2017 legislative session**– “Second Chances” Bill
- **2019 Session** – DFAJ, Registry of IID offenders

The Technology

- Technical Standards – NHTSA specs
- State oversight - TDPS
- Fuel Cell – Specific to Alcohol
- Anti-circumvention features
- Running Re-test / Rolling Re-test
- Data recorder
 - Reports to authorities

The Facts

- Interlocks are more effective than license suspension
- Arizona, Oregon, New Mexico and Louisiana have cut deaths 30 %
- 32 states, plus DC have .08 first offender laws
- Research indicates first offenders have driven drunk 80 times before being arrested.
- To get to .08 BAC, a 160 lb. male, must drink 4 drinks in an hour

Research Summary

- **Teoh et al, Insurance Institute for Highway Safety, “State Ignition Interlock Laws and Fatal Crashes,” March 2013.**

- The number of impaired driving crashes falls 16 percent when states enact all-offender ignition interlock laws.
- If all states mandated interlocks for all DUI offenders, more than 500 of those deaths would have been avoided.

- **McGinty, Emma E. American Journal of Preventative Medicine, “Ignition Interlock Laws: Effects on Fatal Motor Vehicle Crashes, 1982–2013,” January, 2017**

- Ignition interlock laws reduce alcohol-involved fatal crashes. Increasing the spread of interlock laws that are mandatory for all offenders would have significant public health benefit.
- Laws requiring interlocks for all drunk driving offenders with a blood alcohol concentration (BAC) of .08 or greater were associated with a seven percent decrease in the rate of drunk driving fatal crashes.

- **Kaufman, University of Pennsylvania, “Impact of State Ignition Interlock Laws on Alcohol-Involved Crash Deaths in the United States,” March 2016**

- **DUI deaths decreased by 15%** in states that enacted all-offender interlock laws.
- States with mandatory interlock laws saw a **0.8 decrease in deaths for every 100,000 people** each year – which is comparable to lives shown to have been saved from mandatory airbag laws (0.9 lives saved per 100,000 people).

Purpose of Interlock

- Alternative to jail
- Keeps offender licensed and insured
- Allows offender to work, support family, pay court fees, attorney
- Participate in treatment
- Remain productive member of community and family
- *Separates drinking from driving*

How are Interlocks Used

- Probation
- Parole
- Bond
- License reinstatement and licensing Repeat offenders
- Deferred Prosecution
- 1st offenders
- 1st offenders with High BAC (.15 or higher)
- Repeat offenders
- Family Violence (alcohol a factor)
- Court Visitation – Domestic courts (alcohol factor)
- Voluntary

Benefits of Interlock

- Provide public safety
- Monitoring Tool
 - Reporting and Supervision
- Prevent Repeat Behavior
- Form of Incapacitation
 - Bridge license suspension to full reinstatement
- Research supports reduction recidivism among 1st and Repeat offenders – 15 Peer reviewed studies
- 87 % of offenders thought fair sanction

Interlock Technical Standards

- NHTSA, Released May 8, 2013
Device specifications – 1992
Final May 8, 2014
- TDPS State oversight
Texas Administrative Code, Ch. 19 Breath Alcohol Testing Regulations
 - ✓ Device certification
 - ✓ Device programming and specifications
 - ✓ Inspection of vendor facilities
- IID oversight reviewed by Sunset Commission
2018

Device Features

- Language and visual display
- BRAC threshold .030
- Lock-out time – 15 min. temp lockout
- Stall protection – 3min in traffic
- Pull over notice – 6 min. to take the test
- Recall notice – 72 hours
- Violations – combination of 5
- Photo ID – identify user
- Wireless/Cellular/ GPS/ Facial Detection



Cellular

- Daily downloads
- Immediate notification of Violation



Camera

- Identify user
- Compliance



GPS

- Determine patterns of where offenders go
- Tracking where violations are occurring



Installation and Costs

- 560 interlock service points in Texas – DPS website
- Installation takes approx. 1 hour
- Return every 30 – 60 days
- Install - \$50.00 or Free
- Average Monthly - \$2.30 a day or \$69.00 mo.
- Reports sent to authorities via email
 - Texas – reports sent next business day
- Authorities access to client information through Web

Installation



Interlock 101 – How it Works



Service

- Client training – written, hands on video
- Service provider to conduct physical tamper inspections
 - If tamper found report to monitoring authority
- 24 hour toll free number



Truths and Myths

- Car stops in middle of road
- Gas fumes and Perfume
- Battery drain
- Cigarette smoke
- Cinnamon rolls and donuts
- Pool chlorine
- Spicy foods
- Windshield washer fluid
- Teeth whitener



Ignition Interlocks

- Successes
 - *Separates Drinking from Driving*
 - Three decades of Research
 - Proven Tool to prevent recidivism
- Obstacles
 - Offenders do not install
 - Lack of information and education on how the Interlock works
 - Managing Workload
 - Monitoring the offender

Interlocks Globally

- Commercial Applications
 - Sweden has 40,000 interlocks
 - 9 million people
 - North Carolina 11,509 IID's
- Not necessarily an offender market



Busses, School Busses, Trucks, Taxi, Trains, Transportation of Dangerous Goods

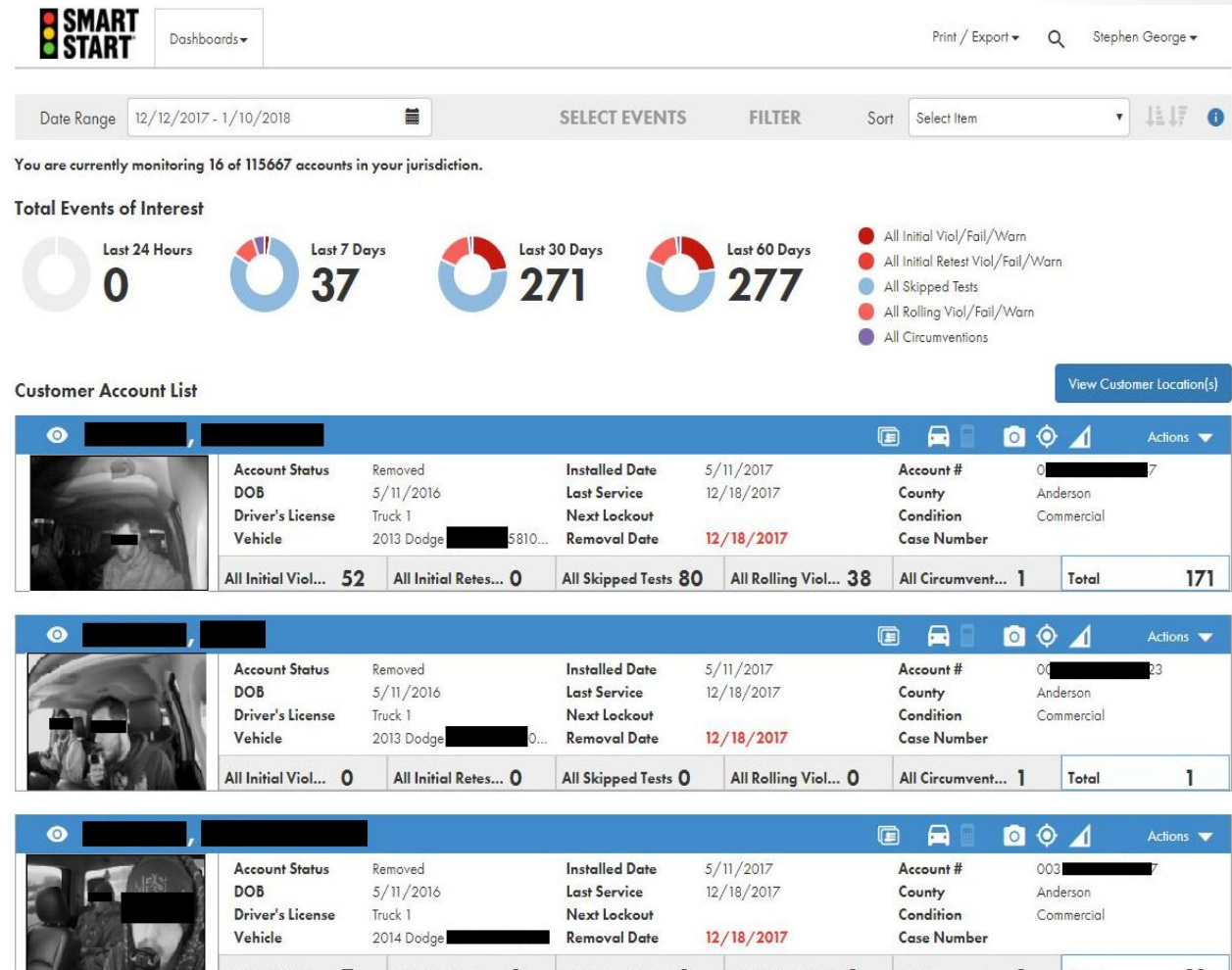


U.S. Pilots in Commercial Vehicles



PREVENTION

- Customizable dashboard shows all company fleet vehicles
- Selectable option to view all vehicles on map or a single vehicle



Driver Alcohol Detection Safety Systems DADSS

- Advanced Technologies development since 2008
 - Interlocks in all Cars
 - Driver Alcohol Detection Safety Systems
 - www.dadss.org
 - Cooperative research with Car Manufacturer's and NHTSA
 - Over \$10 million dollars
 - Pilot testing Vehicle Proto-Type
 - Must be Passive, not hassle sober driver, relatively inexpensive
 - Breath based and Touch based



Alcohol Monitoring Technology



Alternative Alcohol Monitoring Technology

- What is Alternative Alcohol Monitoring?
- Types of Alcohol Monitoring
 - Smart Mobile, SCRAM, TAD, MEMS, Soberlink, Bac Trac, Breath Check
- Background of Development in Texas
 - New Mexico legislation – No Car
 - Sobriety monitoring - Judges

Role of Alcohol Monitoring

- Offenders more accountable
- Help separate compliant from noncompliant offenders
- Direct offenders to treatment and supervision
- Enhances public safety – offenders stay sober
- Separates alcohol from the offender

Advantages

- Affordable price point
- Offender Paid – no cost to the state or local government
- Photo ID and test results available online
- Next day results
- Simple to use
 - Just plug it in and blow when requested by the device
 - No phone line required
 - No Blow technique for user to learn
- Portable

Benefits of Using Technology to Monitor Offenders

- Ensure participants maintain sobriety
- Increase offender accountability
- Provide alternatives to the court system
- Provide for flexibility in supervision based on offenders compliance i.e., Rewards and Punishment
- Use of technology to address alcohol issues

What else is needed?

- Compliance Based Removal
- No license reinstated until served successful period of IID
- Criminal offense to tamper/circumvent
- Criminal offense to drive a non-interlock equipped car
- Path to tie IID to license – police don't know who is required to have an IID on a stop

Separating Drinking from Driving®

Serviced over **1 Million** customers

Over **1 Billion** Safe starts

Over **11 Million** illegal starts prevented

Conclusions

- Over 1000 studies showing effectiveness of Ignition Interlocks over the last 20 years
- Not one tool is the Silver bullet
- Criminologist agree – Swift and Certain Penalties are more effective
- Insert the “intervention” during the teachable moment
- Allow offenders to take responsibility for their own actions and choices



Friends Don't Let Friends Drive Drunk



Setting the Standard in Alcohol
Monitoring Technology®



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