

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
- 560 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, 32 states plus Washington, DC require or highly incentivize the use of an ignition interlock for every convicted offender and California has an all offender law in four counties covering more than 13 million people.

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
- **Last legislative session– “Second Chances” Bill**

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 currently under Sunset Review

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

Service



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

Truths and Myths



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

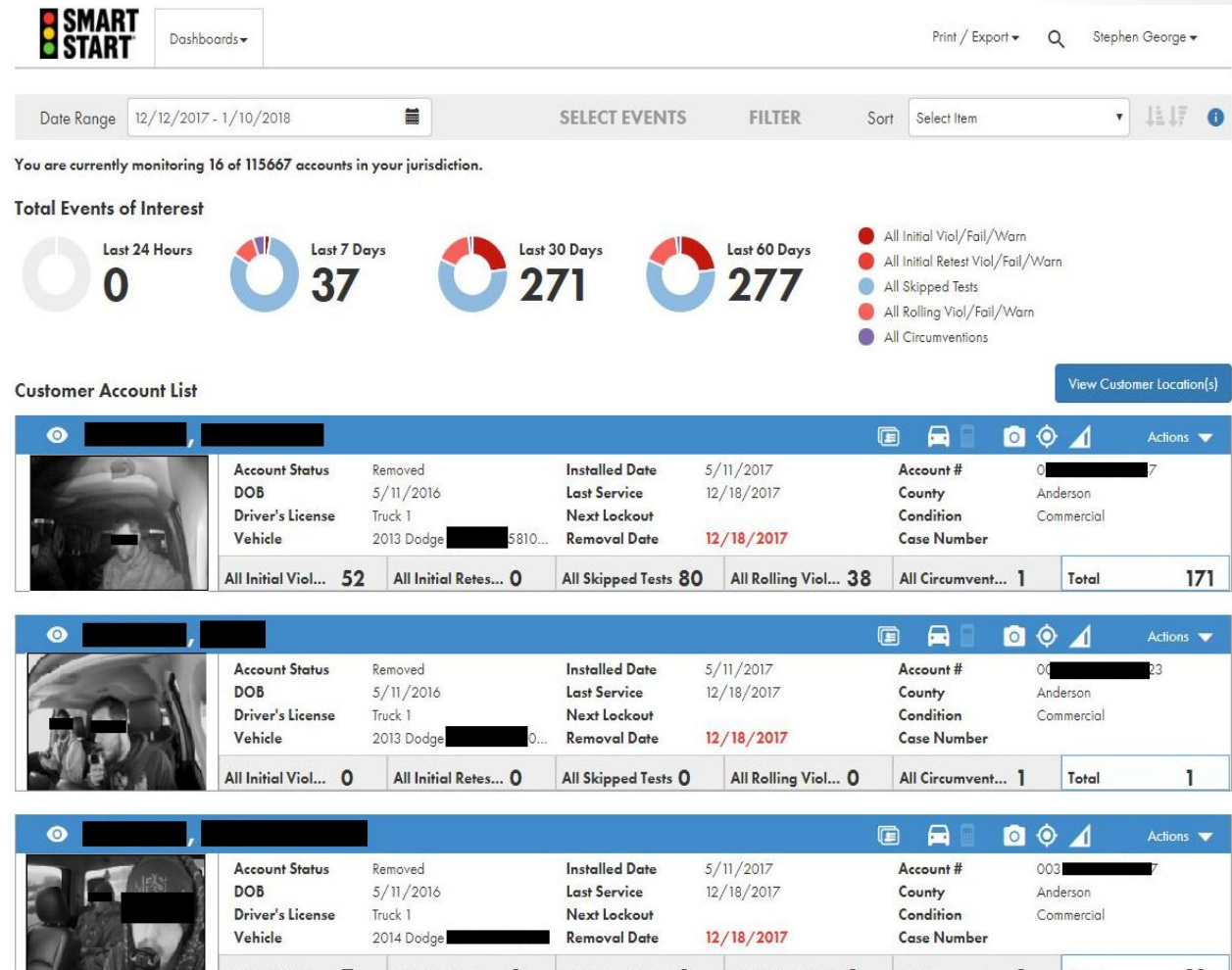


U.S. Pilots in Commercial Vehicles



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
- 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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