

The world's first supply chain visibility tool with low-cost, long battery life with full on-board security and assured global communications.

**BLOODHOUND** TRACKING DEVICE, INC.

#### THE NEW STANDARD IN TRACK & TRACE, AUTOMATED IN-TRANSIT VISIBILITY/ CONTAINER SECURITY TECHNOLOGY

#### Because GPS is NOT ENOUGH!

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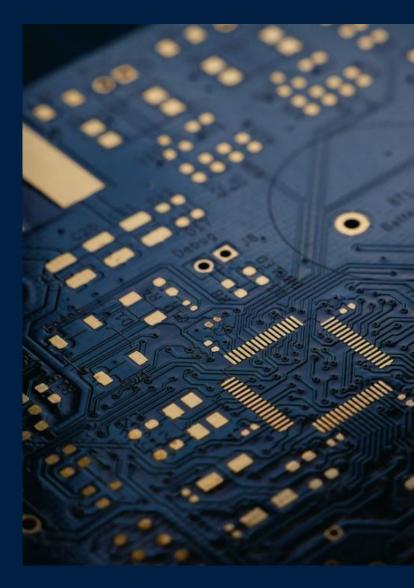
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## So what's the solution?

## **Bloodhound Tracking Device**

A non-parasitic, non-interfering system; commonly referred to as a "container security device" or "black box + software monitoring system."

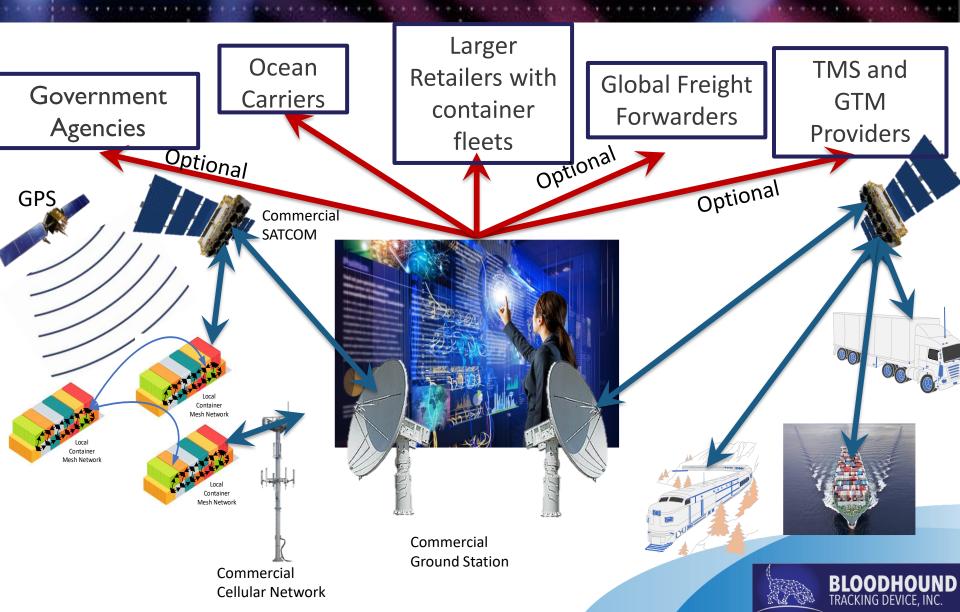


## How does it work?

BTD uses Cell, GPS, Satellite, and our patented **Disruption Tolerant Mesh Network** to provide world class, assured global communications, anywhere in the world, under any conditions!



# ARCHITECTURE, COMMUNICATIONS AND OPERATIONS



# Why do I need it?

#### Location

Know exactly where your boxes are, anywhere in the world, at any time. You don't have to depend on human input.



Zero Cap Ex, low monthly cost (\$20 a month at commercial volumes), and long battery life



Management can increase carrier revenues by up to 18% with super-accurate location analysis. BTD also monitors Dwell!



# Why do I need it?

#### MTDI

The Federal Maritime Commission (FMC) is pushing the Maritime Transportation Data Initiative (MTDI) as a method to get the BCO more transparency and access to location and status of their box. Therefore, tracking in some capacity will likely soon be a REQUIREMENT. BTD SOLVES THIS!

#### Security

Always know WHO and WHAT is in your box. Get access to location, location, camera footage, chemical detection, and so on. Automatically Automatically Detect breaches in security the minute they happen! happen!

#### Utilization

The advanced tracking capabilities offered by BTD BTD enables the carrier to achieve **one additional additional full turn per year**.



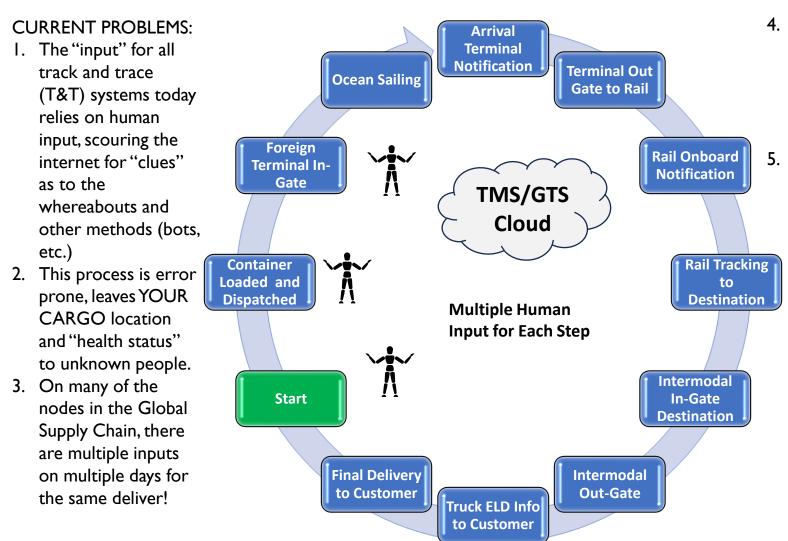
# So how does BTD stack up to the competition?

# **Competing Tracker Specs Matrix**

	Matrix of Competing Trackers																	
						Tracking Options			Sensors/"S	Sensors/"Sniffing"		Other Sensors or Alerts				Other Attributes		
Cargo Tracker Products	Cap Ex	Monthly Fee	Permanently Installed	Installed on Inside or Outside	Battery Life	Cell	Sat com	GPS	DTN	Chemical	Human	Light	Sound	Humidity /Temp	Movement or Door Sensor	Easy	Sensor Package	
Bloodhound (BTD)	<b>\$0</b>	<b>\$26</b>	Yes (& mobile)	inside	3-5 Years	√	V	V	$\checkmark$	V	V	$\checkmark$	V	$\checkmark$	V	$\checkmark$	$\checkmark$	
Blackberry Radar	\$265	\$10	Yes	outside	5 Years	$\checkmark$	no	no	no	?	?	?	?	$\checkmark$	$\checkmark$	no	no	
Arrrow Spot	\$289	\$0	Yes	outside	8 Years	$\checkmark$	$\checkmark$	$\checkmark$	no	?	?	no	no	$\checkmark$	$\checkmark$	no	no	
hoopoSense Solar	\$150	\$4	?	?	10 Years	$\checkmark$	no		no	?	?	?	?	?	$\checkmark$	$\checkmark$	?	
Global Trackers CyberSpy TT1	\$79	\$6	No	outside	1 Year (in sleep mode only)	$\checkmark$	no	no	no	?	?	?	?	?	?	no	no	
Orbcomm ST-6100	\$705	\$0	Yes	outside	No internal battery				no	no	no	?	?	$\checkmark$	$\checkmark$	no	no	
Traxens Box	\$260	\$9	No	outside	4-6 Years	$\checkmark$	no		no	no	no	?	?	$\checkmark$	$\checkmark$	no	no	
Next4 N402	\$104	\$5.20 - \$8.32	Yes	outside	2 Years	$\checkmark$	no	no	no	no	no	?	?		$\checkmark$	no	no	
LandAirSea 54	<b>\$99</b>	\$20-\$50	No	outside	Up to 6 Months	$\checkmark$	no	no	no	no	no	no	no	$\checkmark$	no	no	no	
Sony Visilion	?	?	?	outside	2 Years	$\checkmark$	no		no	no	?	$\checkmark$	no	$\checkmark$	$\checkmark$	$\checkmark$	?	
Nexxiot Crossmodal	?	?	?	outside	?	$\checkmark$	?		no	?	no	?	?	?	?	$\checkmark$	?	

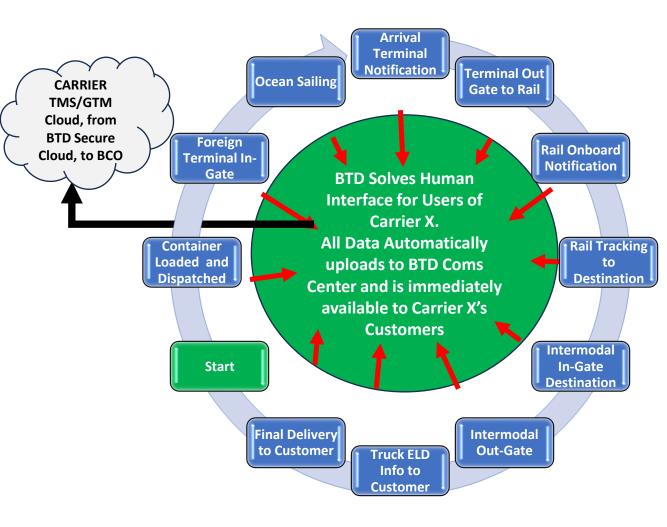


# CURRENT TMS/GTMS SYSTEM FOR TRACK AND TRACE



- Some steps are missed altogether, especially in foreign countries and the chain of custody is marred.
  - By removing the human input, using the BTD Device that sits inside the container and has patented communications protocols to get that information OUT, the Logistics Executive will know exactly where the box is, what the status is of the cargo inside, creating Actionable Intel for the user.

# TMS/GTM SYSTEM WITH THE BTD SYSTEM SOLUTION



- NO human input at all.
- Real Time status updates.
- Useable all over the world.
- Exact status updates.
- Actionable Intel available 24/7 on each box.
- Event notification direct to the user's hand-held phone or pad.



# BENEFITS TO OCEAN CARRIERS

- I. Know exactly where your boxes are, both full and empty.
- 2. Much higher box utilization when the carrier knows exactly where the box is and is able to use it for more turns. BTD can achieve another full turn per year which is easily quantified by the carrier.
- 3. IMSW has engaged with Customs (CBP) to review the demo models to consider zero inspections for shippers/importers that use a device like Bloodhound.
- 4. "Empty" Management can increase Carrier Revenues by up to 18% (from a CEO of a major carrier)
- 5. NO CAPEX—Low \$26/month/unit lease (5 yrs)\*

\*at commercial volumes



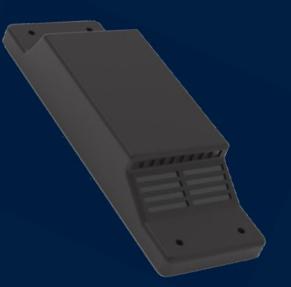
# BENEFITS TO SHIPPERS/BCOs AND TMS/GTM PROVIDERS

- I. <u>Know exactly where your boxes are; anywhere in the world, at</u> <u>any time. Know if your box has been compromised or is holding</u> <u>hazardous/dangerous goods loaded by others, not the shipper.</u>
- **2. Better route management of your merchandise.** Every BCO using a BTD equipped carrier will know precisely where the box is, and be able to manage re-routes, alternative pickup/drop-off details for accurate supply chain management.
- 3. Theft reduction, contraband reduction, and "black-hole dwell time" shall be a thing of the past with the BTD.
- 4. BTD will impact the BCO's ESG rating by providing accurate dwell time and custody transfers.



## **Communication Unit (Outside Container)**

- Low power usage (2 year battery life, no service required)
- Manufactured specifically for Maritime Environments 100% USA parts
- Real-Time & Ad-Hoc Global Communication
  - Disruption Tolerant Networking (DTN)
  - Ad-Hoc Mesh Network, Neighbor Detection/ID
  - LPI/LPD Secured Communications
- Event Trigger & Near Real-Time Alerting
  - All sensors inside container communicate with external comms unit
- Concealed
  - Exact same footprint as a standard ocean container vent
  - Unidentifiable by an expert from a distance of 5 feet



## Instrumentation Unit (Inside Container)

- Container Monitoring and Detection
  - Geolocation
  - Chemical detection & identification
  - Environmental conditions (temperature, pressure, humidity, shock and vibration)
  - Door open/close detection
  - Internal infrared & camera functionality
  - Detection of signs of life



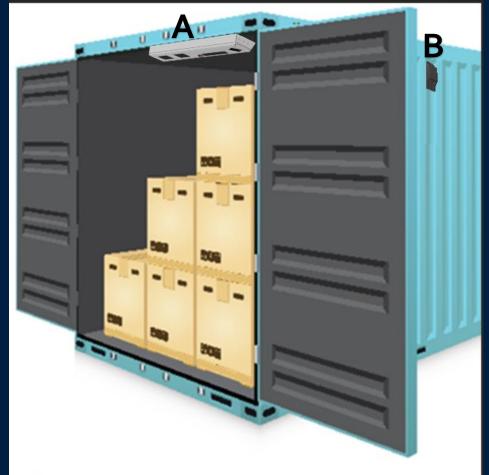
## **Device Installation**

#### **INSTALL ONLY OCCURS ON EMPTIES**

- A (IU) & B (CU) mounted to container via high strength magnets- easy on, easy off No danger to Installer. No assessment or testing by Installer

#### 10 Minutes to install

- Auto start, Auto ping to system,
  Lights indicate on and ready.
- **5** Minutes to change out Battery
- Old Battery displays red light
  New battery displays green light.
- No requirement for any interface except taking the pic of the unit and container
- Installer takes Pic on Phone/App of Container number + Unit to "initiate" unit to ON
- Installer gets "auto pay" when unit goes ON



## User Interface

- Powerful front-end features via configurable UI/UX components
- Notification of any event trigger with time, location, and sensor event
- Customized reports (Dwell times, Travel history, and Security events)
- Multiple container tracking, reporting, and search capabilities
- Plug and Play security features that ensure your containers cargo is safe and secure
- Custom alerts and thresholds for different scenarios that only you have access to



# ADVANCED FENTANYL / OPIOID DETECTION CAPABILITY

- BTD is in development of an advanced chemical detection / triggering sensor capable of identifying the presence of fentanyl and other dangerous drugs. Expected fentanyl detection capability available in Q3/2025 with other opioids and hazardous chemicals to follow.
- BTD identifies the presence of illegal drugs and other hazardous chemicals by detecting the change in the resonance of precisely tuned electromagnetic structures which are "keyed" to specific chemicals such as fentanyl and other targets. BTD detects only the target chemical without cross-detection of other chemicals, combustion products (CO2, CO, NO, etc.) or common airborne pollutants.
- Detection occurs at vapor pressure (natural atmospheric conditions) from the natural off-gassing of chemicals left behind by surface contact or diffusion through sealed packaging. Vapor pressure detection eliminates the need for expensive and complex sensor techniques such as gas chromatography or Raman spectroscopy (the traditional means of detection of complex chemicals) which require vacuum pressures or a neutral carrier gas.
- Detection sensitivity is in the 10s of parts per trillion in normal atmosphere.
- BTD's sensors are inherently resettable, returning to their nondetection state once the chemical is absent from the ambient air, and do not require consumable reagents or chemically reactive materials.

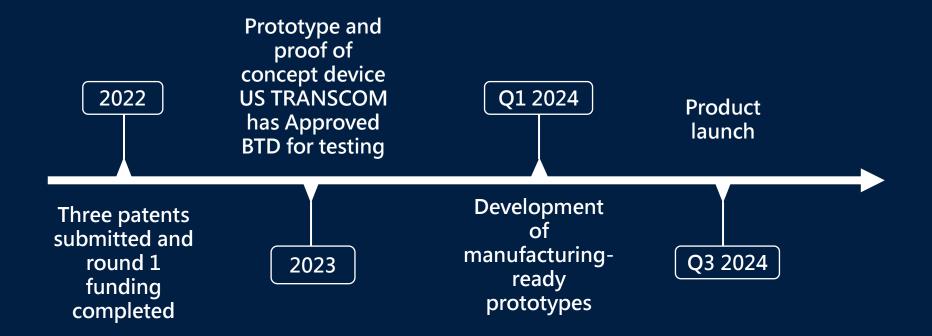


**Officials** U.S. Customs with and Border Protection seized more than 200,000 fentanyl pills hidden in a secret compartment of a vehicle at Port of Nogales, Arizona, Saturday. Around 47,000 of those pills were rainbow-colored pills, which federal officials have warned is a new trend meant to drive young people to the deadly drug. Fentanyl, a powerful opioid up to 50 times stronger than heroin, was responsible for 71.238 of the record 107.000 fatal drug overdoses in the United States last year, according to the CDC." -Fox News, Sep. 6, 2022



Fentanyl pills seized by U.S. Customs and Border Protection officers at the Port of Manposa in Nogales, Ariz. The pills, along with fentanyl powder, black tar heroin, and methamphetamines were concealed in the spare tire of a vehicle attempting to enter the U.S. from Mexico, Nov. 6, 2023, CBP photo by Jerry Glaser.

## Go to Market Plan



### Management Team



Curtis Spencer (CEO) of IMS Worldwide, is a 47-year veteran of Logistics and US Customs consulting. IMSW's largest clients are the Top 100 Importers, Carriers and Railroads. Curtis served on COAC for 4 years after 9/11.



Jason Soloff (CTO) is the Chief Engineer on the project and is an Ex-NASA engineer who helped pioneer space-based communications using DTN and other communications protocols he helped invent for NASA.



Steve Schellenberg (CSCO) is a Top Logistics consultant and supply chain creator with over 50 years experience. Steve's work with CTPAT and Operation Safe Commerce helped shape our Secure Supply Chains.



William Anderson (CGO) is an Ex Special Operator with 45 years of DoD/IC experience. DoD has expressed interest at several layers for the BTD System.

# **Contact Us**

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#### **BLOODHOUND** TRACKING DEVICE, INC.