



 WIRELESS GUARDIAN

HARDENING VENUES FOR
**TODAYS CHAOTIC
CLIMATE**

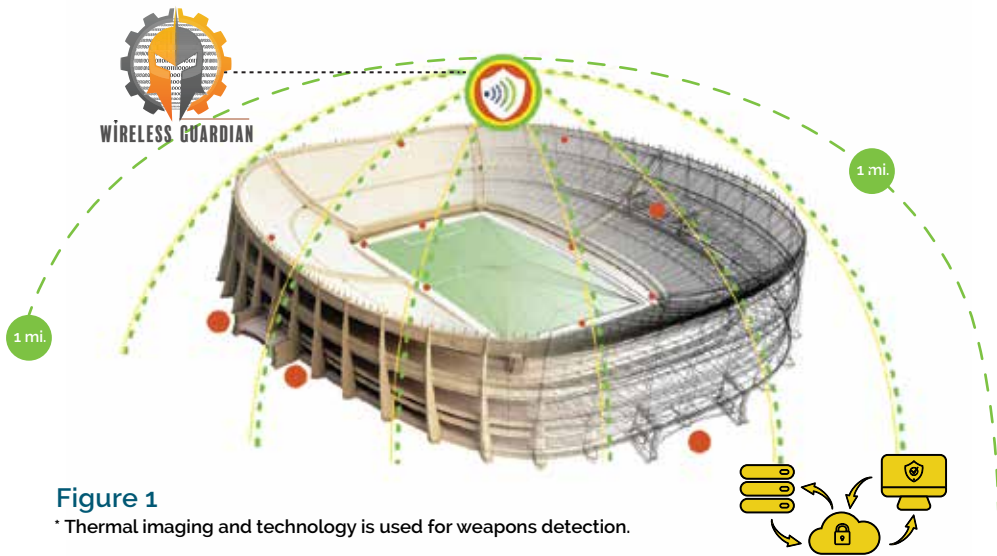


REDEFINING PUBLIC SECURITY WITH TECHNOLOGY



Wireless Guardian locates potential threats before they get inside by hardening facilities (stadiums, airports, schools, etc.) for today's chaotic climate. Protecting the immediate public environment and the facility itself with a patented wireless system, Wireless Guardian keeps patrons safe using a layered defense network of beacon technology and radar, combined with thermal imaging and facial recognition cameras - allowing authorities and security personnel to physically identify potential threats and take the appropriate AND defensive measures before disaster strikes.

PERIMETERS UP TO 1 MILE FROM VENUE



Protective Zones 1-3

1. Signal Intelligence Perimeter

- Patented WG Radar/Beacon System locates and identifies devices in the area.
- Identifies all incoming threats prior to existing venue security measures.
- Integrates with federal and local law enforcement lists for potential target intel.
- Operates in real-time and provides location information to within 3 ft.

2. Video Intelligence Perimeter

- Inner perimeter enhances Zone 1 target tracking with a smart video camera system.
- Video camera system captures real-time images of identified targets prior to the target entering a venue security checkpoint.
- Target information, video, and thermal images are shared with venue security management in real-time.

3. Security/Law Enforcement

- Venue security is heightened with the addition of critical system intel.
- Allows security personnel to physically identify threats and take the appropriate defensive measures.

Leadership

Jason Dumas, Founder/Chief Executive Officer

Dwayne Ratliff, Chief Financial Officer

Sara Hope Smith, Chief Marketing Officer

David Padyjasek, Chief Operations Officer

Senator Jim Talent, Advisory Board Member

Overview

Wireless Guardian (“WG”) is the world’s first forward-facing human threat detection system. Its operational abilities are planning to be deployed at Mercedes Benz stadium, Atlanta, Georgia.

The threat tracking capabilities of WG are derived from a combination of:

- WG Radar/Beacon System (UHF/VHF, 700, 850, 1900, 2100, 2.4, 5.0. bluetooth beacons, etc.).
- WG Camera System; state-of-the-art CCTV with target-recognition-systems.
- WG Computer Terminal running the Patented WG Threat Detection Server.
- Federal/State/Local Law Enforcement Intelligence (up-to-date Threat List and Actionable Intelligence).
- Intelligence Protection Systems (to appropriately disseminate sensitive intelligence).
- On-Site Security Personnel to operate and respond to the intelligence gained from the system.
- Perimeters deployed surrounding the stadium (see figure 1) are set to .5 miles.

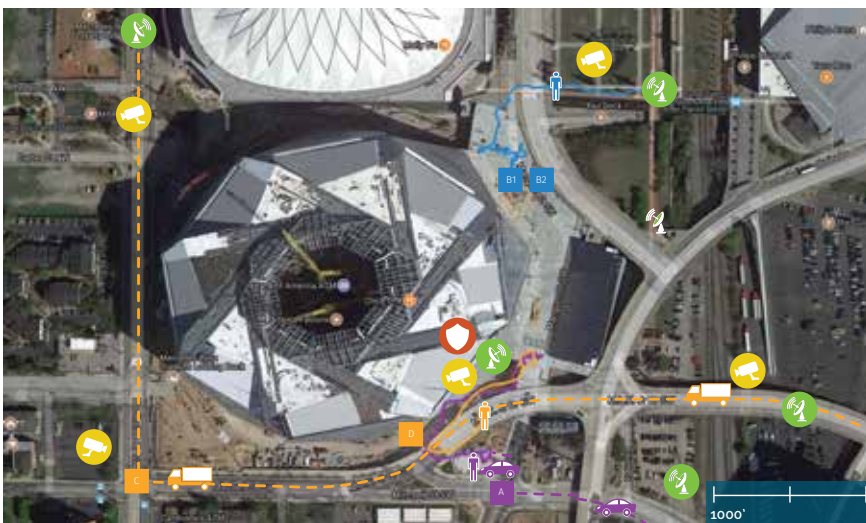
The WG Radar/Beacon System scans the boundaries of the desired area for the WG Signal Intelligence available; regardless of scale. WG Signal Intelligence covers all WiFi capable devices, cellular phones, vehicle information, corporate ID tags, RFID tags, bluetooth devices, radio systems, Eg11 systems, and any/all other RF signals; and includes MAC addresses, IDFA, IP Addresses, Corporate Identifier beacons, and any other available intelligence of the real-time environment; then triangulate them to a space of >1 Sq.Meter.

WG Signal Intelligence then cross-referenced with Law Enforcement Intelligence (watch lists, MAC address lists, most wanted lists, large truck/rental truck tags, etc.) to generate actionable, real-world, intelligence to assist in hardening the desired location from an attack.

The WG Signal Intelligence gained from the WG Radar/Beacon System works in real-time with WG Camera System. As the WG Radar/Beacon System identifies each new incoming target, that WG Signal Intelligence is available, through the WG Server GUI, with the target tracking abilities of the camera system. The WG Camera System includes night vision, infrared, wireless MESH, is multiple target-track capable, UPS powered, facial recognition, weapon recognition, license plate recognition, and is disaster-hardened. This allows for every pedestrian and vehicle being tracked by the cameras, to also be vetted by the WG Signal Intelligence of the WG Radar/Beacon System (and track the targets in areas the cameras cannot see). WG operates before, during, and after any disaster to assist in recovery efforts.

The combination of these three systems generate ‘Targets’ and ‘Actionable Intelligence’. WG tracks the targets as they move through the WG footprint, and await the appropriate authority response; from the appropriate authorities, based on the intelligence used for Target Identification (stadium security, FBI, etc.). If there is a sensitive target, the system has the ability to randomly choose ‘X other’ targets in their ‘round-up’ to allow for anonymity.

The operational effectiveness of WG is to vett every ingressing target before they enter traditional facility security (frisking, metal detectors, pat downs, detainment, etc.). In addition to real-time security, the historical WG Signal Intelligence of every event is available to the authorities to assist in future target intelligence acquisition.



To illustrate the system capabilities, please find the following four case studies outlining the operational effectiveness of the Wireless Guardian system planned to be installed at the Mercedes Benz stadium in Atlanta, GA.






1. Signal Intelligence Perimeter
2. Video Intelligence Perimeter
3. Security/Law Enforcement

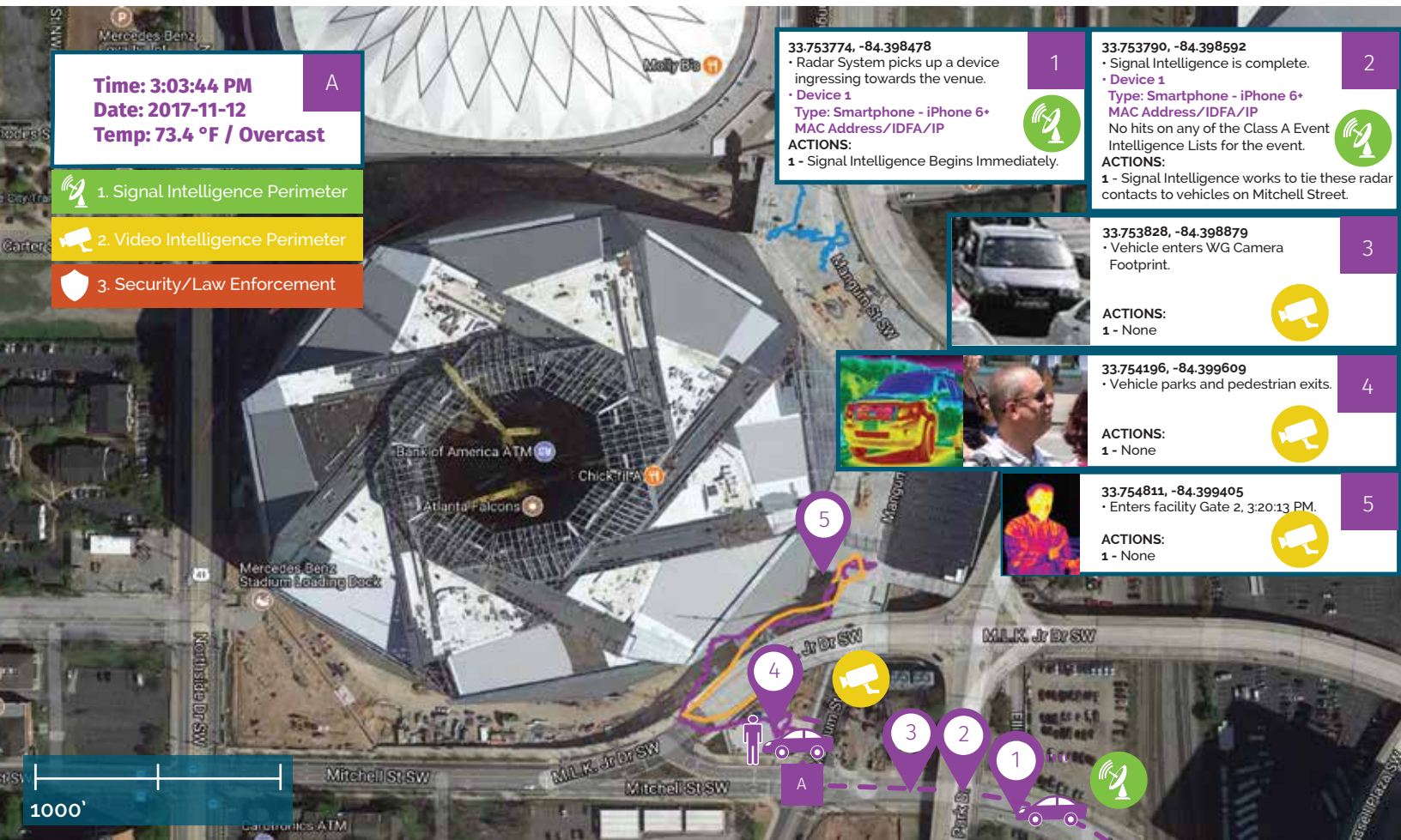
Four Cases demonstrating WG Threat System Capabilities: 2017 Case Study A

Car (Non-WiFi Enabled) with One Driver and Smartphone; Single Device Scenario *(See Map and Data for Case Study A)

A driver in an older, non-wifi enabled vehicle, without passengers, drives west on Mitchell Street towards Mercedes Benz stadium. The WG Radar/Beacon System pings the iPhone 6 Plus device. The WG Signal Intelligence gained from the WG Radar/Beacon System works with the WG Camera System in real-time and tracks the driver who exits the vehicle on foot.

*Case Study A

A	<p>Device 1 33.753774, -84.398478 Time: 3:03:44 PM Date: 2017-11-12 Temp: 73.4 °F / Overcast Device Type: iPhone 6+</p>	 <p>33.753828, -84.398879 Time: 3:09:02 PM *Radar to Video Handoff</p>	<p>Actionable Intel: NONE Enters Facility: Gate 2, 3:20:13 PM</p>
 + 	<p>Vehicle Type: Sedan Vehicle MAC Address: n/a</p>	 	



Four Cases demonstrating WG Threat System Capabilities: 2017 Case Study B


One Pedestrian with Two Smartphones; Two Device Scenario *(See Map and Data for Case Study B)

A pedestrian in the crowd walks west from the Philips Drive Lot on foot towards Mercedes Benz stadium. The WG Radar/Beacon System pings an iPhone 7 device (Device B1) at the same time it pings a disposable phone (Device B2). The WG Signal Intelligence gained from the WG Radar/Beacon System works with the WG Camera System in real-time. WG identifies both phones are being carried by the same pedestrian, then continues to track the pedestrian with two devices on foot as he enters the facility at Gate 1.

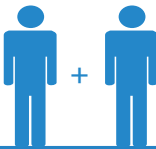
*Case Study B

B

Device 1: 33.756819, -84.398268
Time: 3:07:21 PM
Date: 2017-11-12
Temp: 73.4 °F / Overcast
Device Type: iPhone 7




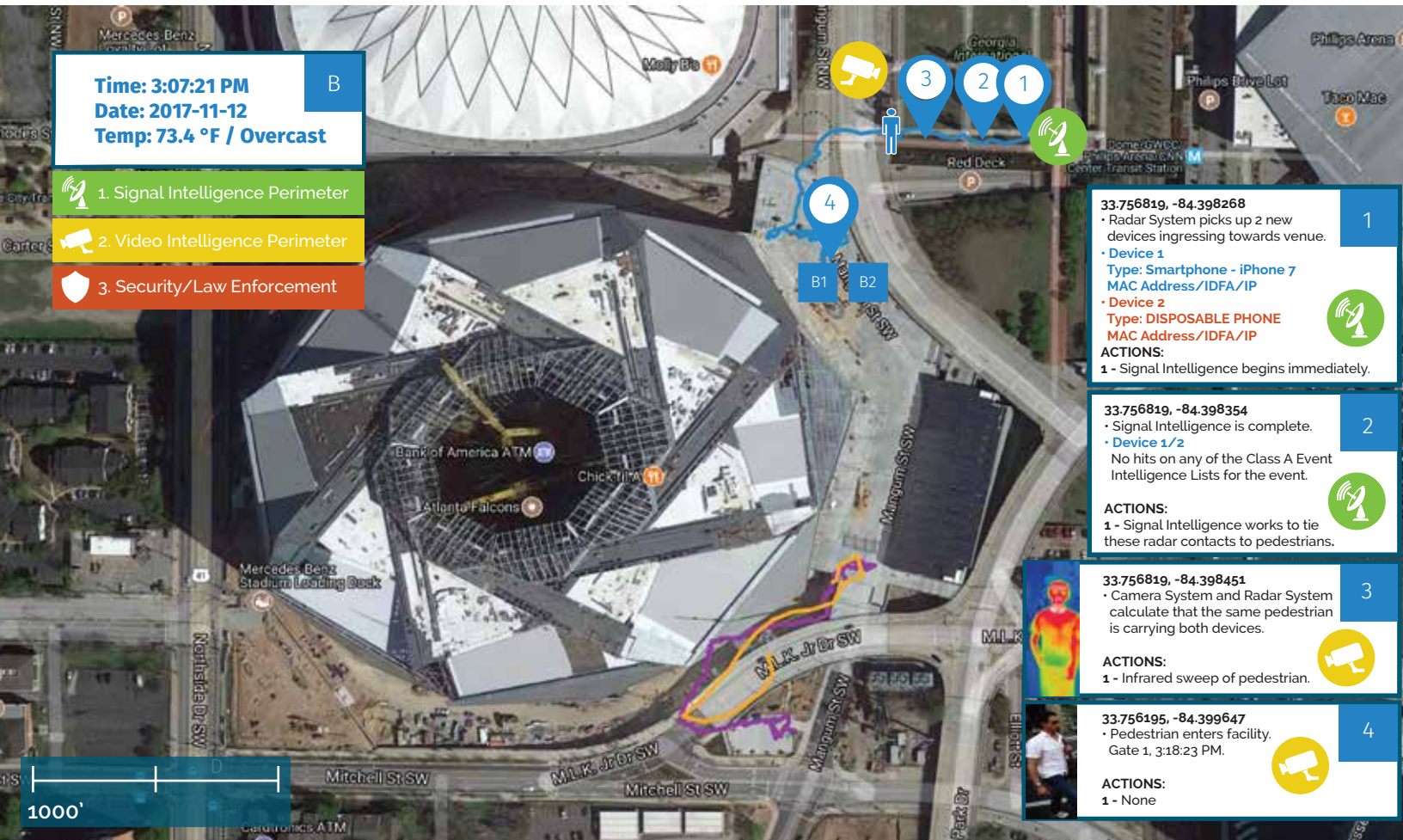
Actionable Intel: NONE
Enters Facility: Gate 1, 3:18:23 PM



Device 2: 33.756819, -84.398268
Time: 3:07:21 PM
Date: 2017-11-12
Temp: 73.4 °F / Overcast
Device Type: DISPOSABLE

33.756819, -84.398451
Time: 3:10:56 PM
*Radar to Video Handoff





Four Cases demonstrating WG Threat System Capabilities: 2017 Case Study C/D


U Haul 17' WiFi Enabled Truck, One Driver with Smartphone, One Passenger with Smartphone; Three Device Scenario *(See Map and Data for Case Study C & D)

A driver in a UHaul truck, with one passenger drives west on MLK Jr. Drive SW towards Mercedes Benz stadium. The WG Signal Intelligence gained from the WG Radar/Beacon System works with the WG Camera System in real-time. WG identifies and tracks the driver dropping off the passenger, then continues to track both the pedestrian (Case Study D) on foot, and the UHaul truck (Case Study C) as it heads north on Northside Drive.

*Case Study C



C

Device 1: 33.757733, -84.393692
Time: 2:49:37 PM
Date: 2017-11-12
Temp: 73.4 °F /
Type: Rental Truck
Beacon ID #xxxxxxx
Size: 17' Box Truck
Status: ON RENT




Device 2: 33.757733, -84.393692
Time: 2:49:37 PM
Date: 2017-11-12
Temp: 73.4 °F /
Device Type: iPhoneX




Device 3: 33.757733, -84.393692
Time: 2:49:37 PM
Date: 2017-11-12
Temp: 73.4 °F / Overcast
Device Type: Samsung Galaxy 10

33.756492, -84.395982
Time: 2:59:50 PM
*UHaul Drop-Off to TARGET
*Radar to Video Handoff

Time: 2:59:50 PM
Actionable Intel: HIT
FBI works with APD/Target On Foot





33.757733, -84.393692
-½ Mile from Venue
• 3 new Radar Contacts recognized as ingressing towards venue.

Device 1
Type: Corporate ID Beacon; Rental Truck
Beacon ID #xxxxxxx
Size: 17' Box Truck
Status: ON RENT
IMMEDIATE ACTION: Notify security of ALL ingressing rental commercial box trucks.

Device 2
Type: Smartphone - iPhone X
MAC Address/IDFA/IP

Device 3
Type: Smartphone - Samsung Galaxy 10
MAC Address/IDFA/IP

ACTIONS:
1 - Notify Security of ingressing Uhaul.
2 - Signal Intelligence begins Immediately.

33.757514, -84.393949
• Signal Intelligence is complete.

Device 1
Beacon ID#XXXXXXX

Device 2
No hits on any of the Class A Event Intelligence Lists for the event

Device 3
HITHIT**HIT**HIT**
AGENCY LIST: FBI (11/12/17)

ACTIONS:
1 - TARGET TRACKING PROTOCOL INITIATED
2 - FBI is asked to work with WG Terminal to allow them to take over action items.
3 - Camera Intelligence sweeps of the truck upon entering camera footprint.
4 - Infrared sweeps of the truck upon entering camera footprint.

33.756492, -84.395982
• Vehicle Enters WG Camera Footprint.

33.754451, -84.399744
• Vehicle Stops and Camera records one pedestrian exiting.

PEDESTRIAN FOLLOWED (CASE STUDY D)




VEHICLE CONTINUES ON WITH:

Device 2
Type: Smartphone - iPhone X
MAC Address/IDFA/IP

33.754380, -84.399841
• Vehicle continues west on MLK.

ACTIONS:
1 - FBI works with APD to plan and complete an immediate stop/investigation of the vehicle.
2 - APD has eyes on the vehicle and takes over the target tracking responsibilities.

Time: 2:49:37 PM
Date: 2017-11-12
Temp: 73.4 °F / Overcast

1. Signal Intelligence Perimeter

2. Video Intelligence Perimeter

3. Security/Law Enforcement

Four Cases demonstrating WG Threat System Capabilities: 2017 Case Study C/D


U Haul 17' WiFi Enabled Truck, One Driver with Smartphone, One Passenger with Smartphone; Three Device Scenario Pedestrian on list exits U Haul 17' WiFi Enabled Truck - One Pedestrian with Smartphone *(See Map and Data for Case Study C & D)

A driver in a UHaul truck, with one passenger drives west on MLK Jr. Drive SW towards Mercedes Benz stadium. The WG Signal Intelligence gained from the WG Radar/Beacon System works with the WG Camera System in real-time. **WG identifies and tracks the driver dropping off the passenger, then continues to track both the pedestrian (Case Study D) on foot, and the UHaul truck (Case Study C) as it heads north on Northside Drive.**


*Case Study D

D


Device 3: 33.757733, -84.393692
 Time: 2:59:50 PM
 Date: 2017-11-12
 Temp: 73.4 °F / Overcast
 Device Type: Samsung Galaxy 10




Time: 3:15 PM
 Actionable Intel: Target Apprehended

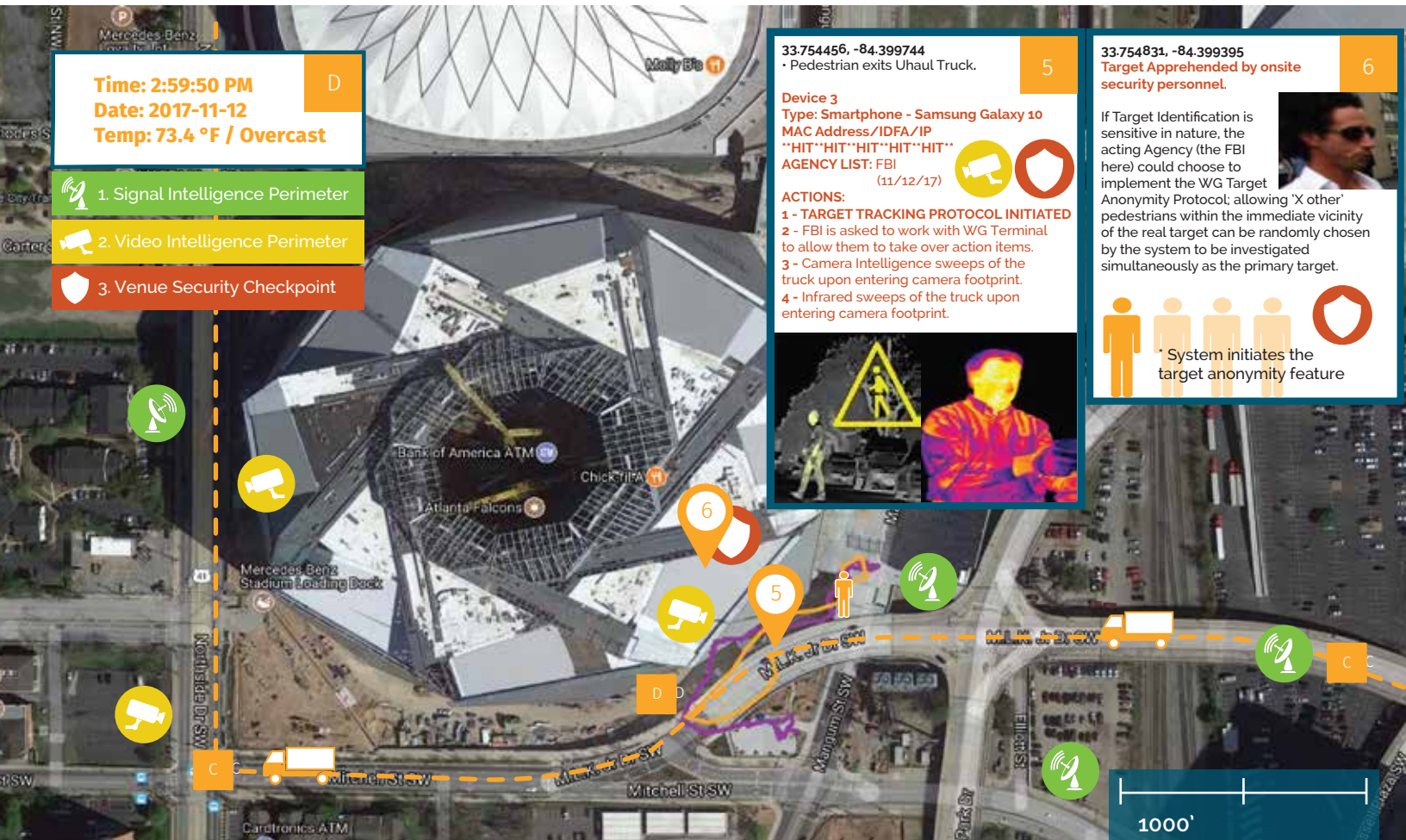


*System initiates the target anonymity feature



*UHaul Drop-Off to TARGET





Time: 2:59:50 PM
Date: 2017-11-12
Temp: 73.4 °F / Overcast

D

1. Signal Intelligence Perimeter
2. Video Intelligence Perimeter
3. Venue Security Checkpoint


33.754456, -84.399744
 • Pedestrian exits Uhaul Truck.

5

Device 3
 Type: Smartphone - Samsung Galaxy 10
 MAC Address/IDFA/IP
 "HIT""HIT""HIT""HIT""HIT"
 AGENCY LIST: FBI
 (11/12/17)

ACTIONS:

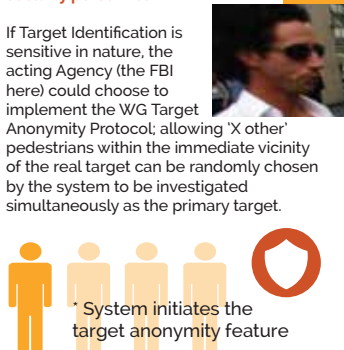
- 1 - TARGET TRACKING PROTOCOL INITIATED
- 2 - FBI is asked to work with WG Terminal to allow them to take over action items.
- 3 - Camera Intelligence sweeps of the truck upon entering camera footprint.
- 4 - Infrared sweeps of the truck upon entering camera footprint.



33.754831, -84.399395
Target Apprehended by onsite security personnel.

6

If Target Identification is sensitive in nature, the acting Agency (the FBI here) could choose to implement the WG Target Anonymity Protocol; allowing 'X other' pedestrians within the immediate vicinity of the real target can be randomly chosen by the system to be investigated simultaneously as the primary target.



*System initiates the target anonymity feature

1000'



WIRELESS GUARDIAN

14 Years of Experience in the DAS, Small Cell, and WiFi markets.

Airports 

ATLANTA, GA
MIAMI, FL
NEW YORK, LA GUARDIA
NEW YORK, JFK
WASHINGTON DC - DULLES
WASHINGTON DC
CHARLOTTE, NC
HOUSTON, TX - HOBBY
HOUSTON, TX - BUSH
MEMPHIS, TN
LOUISVILLE, KY
NASHVILLE, TN

Stadiums 

FORD FIELD, DETROIT, MI
SUPERDOME, NO, LA
TURNER FIELD, ATLANTA, GA
PHILIPS ARENA, ATLANTA, GA
JACKSONVILLE STADIUM, FL
NRG STADIUM, HOUSTON, TX
MINUTE MAID PARK, HOUSTON, TX
LSU STADIUM, BATON ROUGE, LA
OLE MISS STADIUM, OXFORD, MS
UNF STADIUM, JACKSONVILLE, FL
U OF F STADIUM GAINESVILLE, FL
VERIZON CENTER, WASHINGTON DC

Venues 

US SENATE BUILDING COMPLEX
(DIRKSON, RUSSELL, HART,
CVC, CAPITOL) WASHINGTON DC
SMITHSONIAN DC COMPLEX
(AIR AND SPACE MUSEUM,
NATURAL HISTORY MUSEUM,
AMERICAN HISTORY MUSEUM,
AMERICAN INDIAN MUSEUM)
FRENCH QUARTER, NO, LA
CONVENTION CENTER, NO, LA
HOLLYWOOD BOWL, LA, CA
USHMM, DC