

SCRAM GPS Overview



The SCRAM GPS one-piece device is a slim, lightweight bracelet that attaches to the client's ankle and tracks movements 24/7. The device operates with a GPS background, tracking points as frequently as once per minute, and once every 15 seconds if the client enters an exclusion zone or if the officer manually activates Pursuit Mode. These location points can be transmitted via 4G LTE on the AT&T (GSM) or Verizon (CDMA) cellular networks per the communication frequency chosen by the Participating Entity or User.

Key features include:

- Unified platform with mobile-adaptive software
- GPS Analytics to simplify large amounts of data
- On-Demand Pursuit Mode
- Robust tamper technology that virtually eliminates false tamper
- Long lasting battery—45 hours on a full charge
- Break-away charger to minimize device/charger damage
- Unparalleled mapping capabilities
- Secondary location technology
- 30-second, tool-free installation



SCRAM GPS is a lightweight, one-piece device that attaches to the client's ankle and tracks movements 24/7.

Tracking Device

Location Technologies. SCRAM GPS uses cell tower triangulation through the GSM or CDMA networks, or M2M location-based services (LBS) to locate clients in GPS-impaired environments and places in which GPS alone does not work.

Accuracy. SCRAM Systems designed the SCRAM GPS device to function in line with the U.S. government GPS Performance Standard of 95% confidence level, which means that under ideal circumstances, SCRAM GPS demonstrates high-quality GPS accuracy to within three meters, providing accuracy that is comparable or surpasses all GPS client monitoring products on the market.

To ensure accuracy and reduce drift points, SCRAM GPS also supports GLONASS (Global Navigation Satellite System) GPS capabilities, allowing location points to be pulled from 56 satellites instead of the standard 32.

SCRAM GPS uses both autonomous and assisted GPS (A-GPS) services to help ensure accuracy. A-GPS provides enhanced location ability and Time-To-First-Fix, which is especially useful when the receiver is in a location where it is difficult for the satellite signals to penetrate. Additionally, the device uses Space Based Augmentation System (SBAS), including WAAS, EGNOS, MSAS, and GAGAN, for precision correction services. SBAS corrects location drift that results from environmental factors which distort GPS signal transmission.



SCRAM GPS accuracy consistently outperforms the U.S. government GPS performance standards of 95% confidence of points within three meters.

Tracking Frequency. Location points can be tracked as frequently as once per minute or as great as once per hour. On a 1x10 rate plan, the Participating Entity will get 1,440 points in a 24-hour period (1 point per minute) or 60 points per hour. If the client enters an exclusion zone, the device's onboard intelligence automatically transmits a zone alert to the server, which automatically initiates pursuit mode. The device begins tracking at an accelerated rate and captures points every 15 seconds, for 15 minutes, providing immediate increased visibility. It can also be triggered manually at any time (whether in violation or not).



Client Communication. The device has two-way client communication and can be configured to communicate using vibration or audible tone. The audible tone is a 95-decibel speaker, ensuring it is easy for clients to hear when they violate their program requirements. The client must acknowledge the alert by pressing a button on the device to stop or silence the vibration/tone within 30 seconds. Providing two options to notify the client significantly decreases excuses for non-compliance. Officers can administer the audible tone or the vibration sensor at any time. In addition, the bracelet will automatically vibrate whenever the bracelet reaches a low battery state.

Battery Life. Unlike the battery life statistics for other GPS monitoring devices, our testing is based on an aggressive active rate plan of 1-minute acquisitions and 10-minute transmission. Even when used in Pursuit Mode, the SCRAM GPS battery will have more than sufficient battery power to consistently monitor and deliver critical GPS data.



The internal battery is rechargeable and has visible LED lights on the device to show when the battery is low, charging, and fully charged.

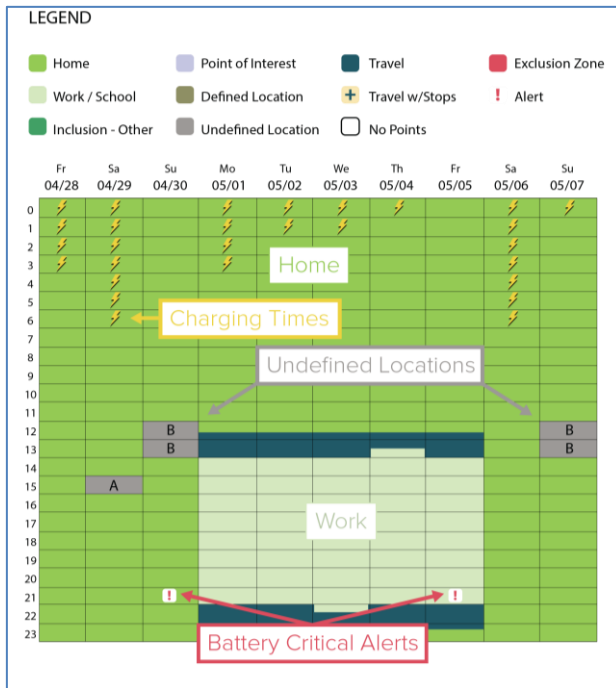
Charging Options. SCRAM GPS has multiple ways clients can quickly charge, reducing low battery alerts.



The break-away design prevents damage to the GPS device.

The SCRAM GPS device comes equipped with a standard **break-away charger**. Clients easily attach the device by sliding on the charger. Small vibrations and LED lights indicate to the client that the device is charging. Should the device get pulled away from the wall while the charger is still attached, the break-away design prevents damage and wear to the GPS device. With a 12-foot charging cord, clients have more room to function and move around while charging.

The **On-Body Charger** can help promote compliance by allowing clients to charge their device on the go. The optional charger attaches to the client's ankle and fully charges the SCRAM GPS device in approximately two hours, without being connected to a cord. It uses the same AC charger as the SCRAM GPS bracelet, limiting the need for additional equipment.



Charging icons depicted as lightning bolts show officers when, where, and for how long an offender has charged the device. With hour-by-hour detail, officers have immediate access to charging details.

Tamper Detection. The GPS device sends an immediate strap tamper alert notification if the patented strap is cut or the backplate (which locks the strap into place) is removed. The backplate is one of the most robust tamper features in the industry. Participants often attempt to remove a strap undetected by releasing "locking pins," which can be difficult to visually verify. SCRAM GPS' s unique design requires a participant to break the entire backplate to remove a strap. Physical damage to the backplate is clearly evident during inspection because the design prohibits clients from reattaching the backplate once broken.



Simple, tool-less installation completed within 30 seconds. If the backplate (which locks the strap into place) is altered or removed, an immediate tamper alert is sent.

SCRAM GPS has the most robust tamper technology in the industry, virtually eliminating false tamper.



Design. The SCRAM GPS tracking device measures 8.3 cubic inches (3.37" tall x 2.75" wide x 0.90" deep), making it one of the smallest devices on the market. It is lightweight, weighing only 8.3 ounces (236 grams), and is sealed and waterproof to two meters. The SCRAM GPS device has been tested and complies with military standards MIL-STD-810F Method 516.6 and IP-57 respectively for shock and water ingress and is FCC compliant (FCC ID P8M-GPS-600).

The SCRAM GPS device has an industrial-grade plastic strap made of hypoallergenic material with no harmful substances and has an embedded fiber optic cable. Straps are available in two adjustable sizes and can be fitted to any size participant ankle.

Easy Installation. The device can be installed on the client's ankle within 30 seconds without any tools. The battery is internal and rechargeable, so there is no need for it to be installed or changed. The hypoallergenic strap is reusable, adjustable, and requires no cutting or specialty tools. The wider strap design helps distribute weight along a person's leg to minimize the strap digging into an ankle and to increase comfort. The backplate locks the strap securely into place without the need for tamper clips. The client would need to cut the strap or break the backplate to remove the strap, both of which are obvious upon inspection and would also generate an alert.

Memory. Because the tracking device is actively communicating, even when deployed in a passive mode, the need to store data in memory is largely eliminated. However, should cellular coverage be unavailable, the device can indefinitely store thousands of events and GPS data in its internal, solid-state, non-volatile memory. It continues to collect events and GPS data as long as the battery provides sufficient power. Once power and communication have been restored, the device communicates all events and GPS data to the monitoring software, where it is reported according to the Participating Entity's preferred procedures.

Monitoring Software

Data for all SCRAM Systems' technologies are housed in SCRAM Optix™, the web-based software application by SCRAM Systems. It offers robust caseload and client management tools, including both point-by-point and advanced mapping features, customizable notification protocols, and powerful program reporting tools. Every SCRAM Systems technology is integrated into Optix, allowing officers to access information and manage reporting on every SCRAM client in your caseload.

For SCRAM GPS, Optix makes it easy for officers to create and manage unlimited inclusions and exclusion zones, engage On Demand Pursuit Mode and Locate Now features, see side-by-side offender and victim mapping, and the ability to go from point-by-point mapping to advanced, detailed Patterns of Life views of an offender or a caseload within seconds. The mobile-adaptive design of Optix means officers can quickly access full offender information, 24/7, from any Internet-enabled device, including smartphones and tablets.

Dashboard

Show All Alerts

Search Clients

Search

Client	+View Additional Clients	Battery	Tampers	Zones	Communication	Location
Dungy, David	☒					
Schneider, Shane	☒					
Allister, Arturo	☒					

Legend

 Battery Status
  Compliant

 Fully Charged
  Current Violation

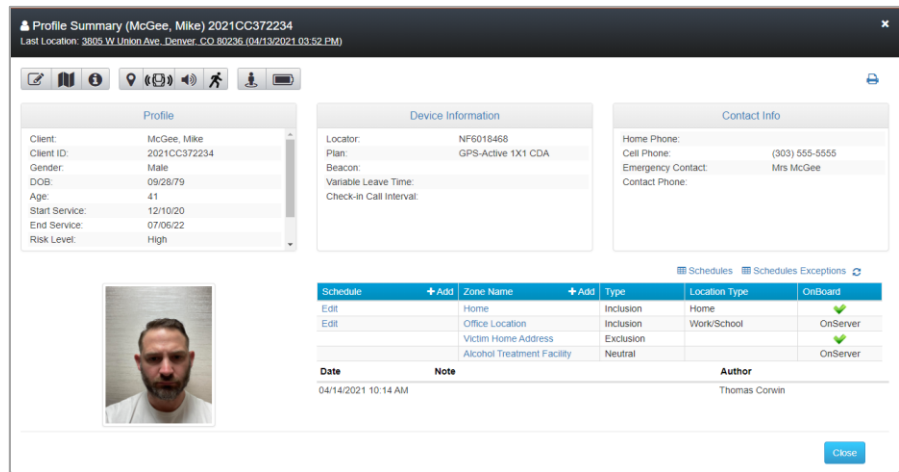
 Pending Battery Status
  Auto-Cleared Violation

The dashboard depicts caseload information at a glance. The most important alerts, indicated in red, are always listed at the top of the caseload page.

Agents can do the following through the web-based software application:

- View information about the client, including—but not limited to—personal information, current electronic monitoring data, historical electronic monitoring data, violation statuses, notification settings, and reports.
- Enroll/edit/remove clients without calling the monitoring center.
- Create, edit, delete, and apply monitoring parameters (such as daily/weekly schedules) for individual clients or groups of clients.
- Create and manage zones.
- Select which violations/events should trigger notifications and customize those preferences per client, officer, caseload, or agency.
- Easily set up notification protocols customized by client, officer, caseload, or agency.
- Enter information to initiate multiple alert notifications (e.g., officers, law enforcement) for specified key events or non-compliance with monitoring parameters.

Officers can view information about the client, including personal information, current electronic monitoring data, historical electronic monitoring data, violation statuses, notification settings, and reports.



Profile Summary (McGee, Mike) 2021CC372234
 Last Location: 3805 W Union Ave, Denver, CO 80236 (04/13/2021 03:52 PM)

Profile

Client: McGee, Mike
 Client ID: 2021CC372234
 Gender: Male
 DOB: 09/28/79
 Age: 41
 Start Service: 12/10/20
 End Service: 07/06/22
 Risk Level: High

Device Information

Locator: NF6018468
 Plan: GPS-Active 1X1 CDA
 Beacon:
 Variable Leave Time:
 Check-in Call Interval:

Contact Info

Home Phone:
 Cell Phone: (303) 555-5555
 Emergency Contact: Mrs McGee
 Contact Phone:

Schedules **Schedules Exceptions**

Schedule	+ Add	Zone Name	+ Add	Type	Location Type	OnBoard
Edit		Home		Inclusion	Home	✓
Edit		Office Location		Inclusion	Work/School	OnServer
		Victim Home Address		Exclusion		✓
		Alcohol Treatment Facility		Neutral		OnServer

Date **Note** **Author**

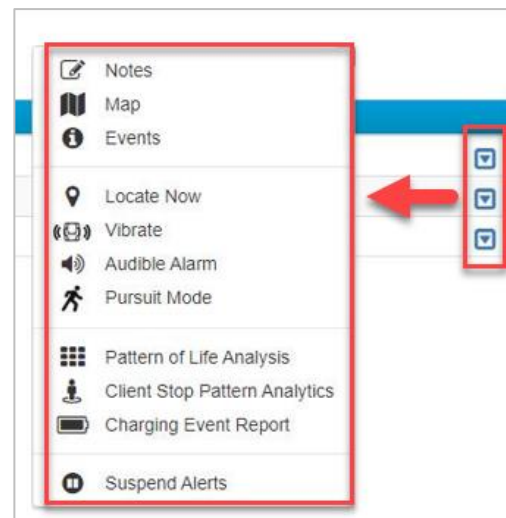
04/14/2021 10:14 AM Thomas Corwin

Close

- Manage inventory.

In addition, the dashboard includes one-touch functionality that enables officers to quickly initiate actions related to a specific client, without navigating across multiple screens. When a drop-down arrow is selected, the software displays a series of launch buttons that provide quick and easy access to:

- Add or edit a note in the client's file
- View movements on a map
- Review event history
- Obtain the current location of a client
- Send vibrate command or audible alarm
- Enable Pursuit Mode to actively track a client's location every 15 seconds
- Analyze Pattern of Life behavior
- Access Client Stop Pattern analytics
- See Charging Event reports
- Suspend alerts temporarily on a specific client



Mobile-Adaptive. SCRAM Systems software is mobile adaptive, making it easy to view on any smartphone or tablet. With client profile information at their fingertips, officers can:

- Resolve priority alerts in the field.
- View battery status.
- Pinpoint a client's location at the time of an alert.
- Get turn-by-turn directions.
- Access a street-level view of the alerts in question.
- View the last known location via Google Maps.

Alert Notification. All GPS alert notifications can be customized to meet the preferences of the Participating Entity. Optix immediately sends alerts directly to the server and, if selected, can be simultaneously sent to supervising officers. For each violation or event, the system can be configured to provide notification by email or text and a daily notification summary outlining the previous day's activity. Additionally, the software generates an alert if the device fails to communicate with the system for a period that exceeds the transmission frequency interval of the client's supervision plan and the user-defined buffer period for communication failures. When an alert is generated, notification is made according to the participating entity's protocols.

From: noreply@scramsystems.com [mailto:noreply@scramsystems.com]
Sent: Wednesday, May 03, 2017 2:20 PM
To: Officer Johnson
Subject: Critical Alert for John Jacobs

Critical Alert for John Jacobs

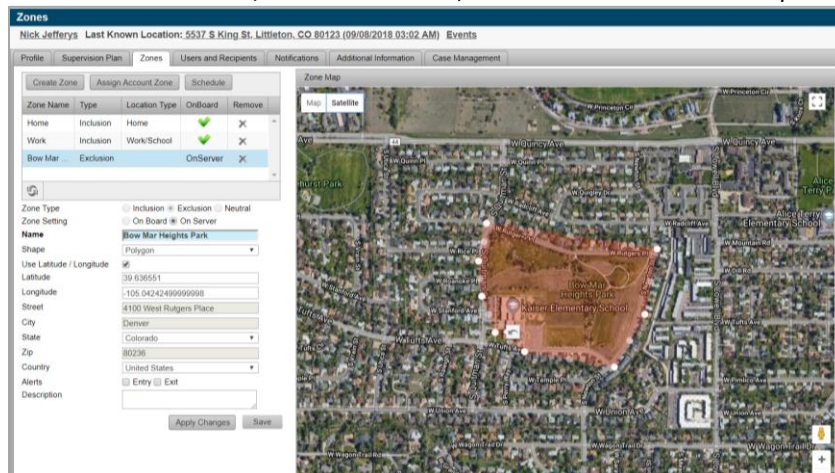


Offender:	John Jacobs
Account:	Jefferson County
Event:	Device Tamper
Time of Event:	05/03/17 02:20PM
Risk Level:	High
Home:	
Cell:	(303) 785-7879
Work:	
Location:	1241 West Mineral Avenue, Littleton, CO - USA
Zone Name:	
Zone Address:	

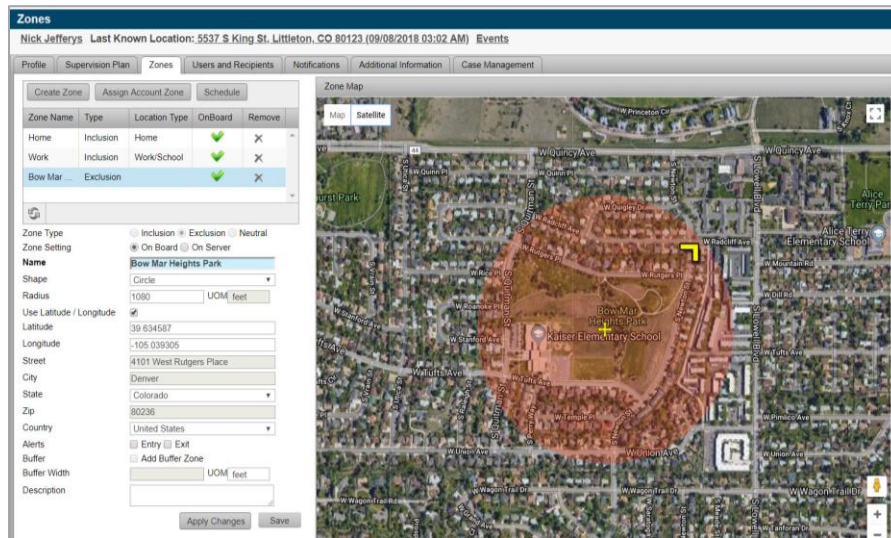
Zones. Users can create an unlimited number of adjustable zones within the software, including circle, square, and polygon zones. There are three types of zones: Inclusion (client must be in during certain periods); Exclusion (client can never enter); and Neutral (to track entries and exits without assigning schedules). The user can create new zones for each client and also assign zones from an account library of zones, which can be assigned to any client in the account. This is particularly helpful for standard exclusion zones such as schools, libraries, and shopping malls. Additionally, instead of drawing zones to create new inclusion/exclusion zones, the user can select from prebuilt zones, which are designated by

state, county, or public school districts. The user can opt to receive alerts for zone entries and exits, regardless of schedules.

Exclusion zones are available with a minimum radius of 200 feet and an unlimited maximum radius. While location points can be tracked as frequently as once per minute or as great as once per hour, if the client enters an exclusion zone, tracking automatically accelerates to one point captured every 15 seconds for 15 minutes.



Users can create an unlimited number of zones, including circles, squares, and polygon-shaped zones.



The above image is an example of a circular on-board exclusion zone. Users can toggle between map and satellite view, as well as set the centralized address, additional buffer zones, alert notification parameters, and a description.

Onboard Zones. SCRAM GPS contains onboard processing, so the device detects and records location violations regardless of the connection to the server. Should a client enter a restricted zone, SCRAM GPS automatically sends an alert to the agency and activates an accelerated data plan that communicates data points once every 15 seconds. All events are date- and time-stamped.

Prebuilt Zones. Instead of drawing zones to create new inclusion/exclusion zones, these prebuilt zones are designated by state, county, or public school districts. For instance, a sex offender can be excluded from all school districts in an area and can be confined to remaining in a county and/or a state, without the time-consuming process of drawing individual zones. Once added to an agency, officers can then assign the prebuilt zone to subaccounts as necessary and can be applied to a single client, multiple clients, or an entire caseload, potentially saving officers hours of work.