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Overview of Global Positioning Satellite Tracking and Breath Alcohol Testing

Content:



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Who is Sentinel?



- Provide offender management solutions to courts, sheriff's, and probation departments
- Solutions include GPS, Radio Frequency, Breath Alcohol Testing, Drug Testing, and Misdemeanant Probation Supervision
- Provide services for more than 250+ agencies nationwide.



- Monitors several thousand participants in our state-of-the-art National Monitoring Center.

Overview of GPS:



- ❑ A U.S. owned utility consisting of 24 satellites that orbit earth
- ❑ GPS technology utilizes one way signals sent from the satellites to GPS receivers
- ❑ GPS is capable of determining latitude, longitude, altitude, time, and speed
- ❑ Multiple applications (including tracking of offenders)

GPS: Offender Tracking Units



- Typically used to monitor higher risk offenders
- Two types of GPS units
 - One piece
 - Two Piece
- Three levels of Tracking
 - Passive
 - Intermediate (Hybrid)
 - Active
- All offender tracking devices rely upon cellular service to communicate data
- Exclusion and Inclusion Zones determine the area where an offender can or can not enter
- Offender tracking units often provide means of communication with the offenders – such as voice or text messaging
- All units require charging of the tracking device

One Piece vs. Two Piece Technology:



- | <u>One Piece</u> | <u>Two Piece</u> |
|---|---|
| <ul style="list-style-type: none">• Totally reliant upon cell service• Offender has to "plug in" to charge the device• Does not confine the offender to the residence• Typically does not offer voice communication with the offender• Device can be shielded while driving | <ul style="list-style-type: none">• Radio Frequency is a backup when offender does not live in cell service• Offender is free to move throughout the residence while the device is charging• Officer confine the offender to the residence by using Radio Frequency• Voice Communication with the offender |

Passive GPS:



- Generally used for lower risk offenders
- Unit tracks the offender while away from the residence and stores the data until the offender returns home
- Information is communicated to the host system historically – usually once per day
- Violations are typically not immediate

Intermediate (Hybrid) GPS:



- Used as a graduated sanction for offenders not complying with rules of a least restrictive form of monitoring
- Data collection is more frequent and violations are reported near real time
- Exclusion and Inclusion Zones are typically used in this level of monitoring

Active GPS:



- Used for higher risk offenders
- Immediate or near real time notification of violations to the supervising officer
- Data collection is one GPS point per minute and updated every five minutes
- Immediate notification of zone violations
- In DV cases, victim can receive zone notifications

Exclusion vs. Inclusion Zone:



- **Exclusion** zones are areas an offender is not allowed to enter – can have time periods associated with this level
- Typical Exclusionary zones are schools, bars, victim residences, etc.
- **Inclusion** zones are areas in which the supervising officer wants the offender to enter – can have time periods associated with this level
- Typical inclusion zones are schools, AA meetings, work, probation meetings, etc.

Things to consider:



- GPS is **not** a life safety device
- GPS will **not** prevent a crime
- Caution against allowing victims access to the software
- Choose exclusion zones that have adequate cell service
- Be careful not to set exclusion zones too restrictive
- Sometimes you can have too much information
- Be careful not to oversell the capabilities of GPS to the Courts, Sheriff, or public

GPS Mapping Software



SenTrak online allows department personnel access to offender position information, high quality Mapquest and Google Maps mapping and all maps displaying a single position or "breadcrumb" trails may be saved for future reference or to place locally in client files. SenTrak allows officers to access data online for all active clients from the date of enrollment, there is no need to archive data locally, it is always available via secure Internet connection in real time.



Breath Alcohol Testing:



- Sentinel BreathTrak

- **Type:** Breath Alcohol Test (BAT)
- **Components:** MEMS 3000 BAT device, land line phone, automated dialing, digital imaging, records database
- **Activity:** Monitoring Center randomly dials offender's home phone several times per day, offender gives breath sample, results recorded in database



Questions and Answers:


