



Personnel Position/Location Technology for Law Enforcement

Precision Indoor Personnel Location and Tracking For
Emergency Responders
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Location Technology

“Why Do We Need It?”



Multiple reasons, but one example that is compelling:

On August 2, 2003 a deputy was shot and killed after he responded to a trespassing call in a remote desert area of Los Angeles County.

He was shot, drug behind a vehicle by the suspect, and left to die.

Several agencies conducted an extensive grid search that ultimately led to the discovery of his body.

Partnership



The Sheriff's Department entered into an agreement with the National Law Enforcement & Corrections Technology Center, Communications Technologies Center of Excellence and the 3SI Corporation, to initiate a pilot project for the deployment of Officer Safety Tracking equipment.

Problem Analysis



- **Identify the Problem**
 - **Foot chase, emergency trigger**
 - **Underlying issue: observations**
- **Provide Data for baseline analysis**
- **Described our Desired Outcomes**
- **Possible solutions**

Desired Outcomes



- Provide outdoor location
- Accuracy had to be within 10 meters
- Battery life for a minimum 10 hour shift
- Able to wear on the person
- Light weight
- Must be fieldable
- Ease of operation

Identifying Solutions



Based on a clearly defined problem

- **Identify position location solutions that provide the geographic position of field personnel**

Why 3SI Corporation?



- The Sheriff's Department looked at several possible solutions
- 3SI was chosen because they already had location technology deployed in Los Angeles area banks
- LASD was familiar with this tracking equipment
- The hardware was provided free of charge for the pilot project

Original “Buy In”

- Officer safety
- Pilot project only
- No identifying information collected
- Will not be used for disciplinary action



Deployment at the Stations



- **Briefing for Station Captains**
- **Solicited volunteer deputies**
- **Trained volunteers with equipment**
- **Trained dispatch to monitor system**

Operation

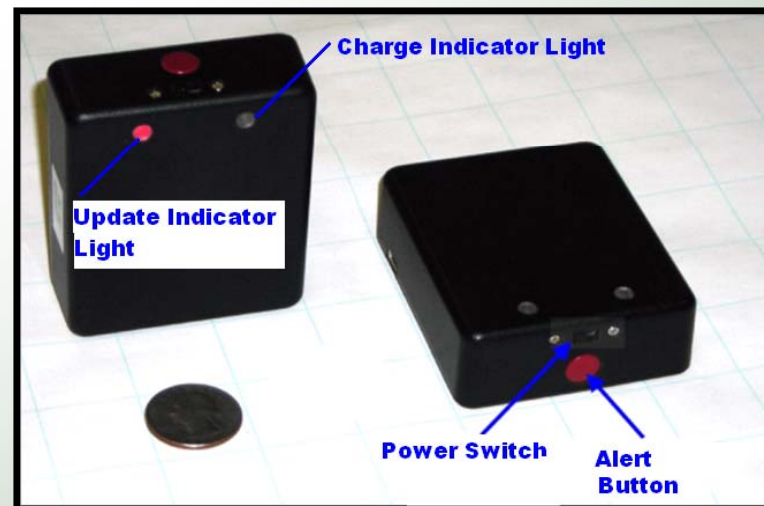


- **Device will communicate location every 10 min**
- **Self initiated activity (traffic stop, pedestrian stop) activate the device**
- **Press the Alert button, device then communicates location every 6 seconds**
- **System resets in approximately 15 minutes**
- **Dispatch monitors activity on 3SI website**

The Device



- Worn on the belt in a holster, much like a pager
- Update indicator light
 - Flashes approx. once every sec in normal mode
 - Flashes rapidly when in fast update mode
- Light turns green when fully charged



Corrections



- **New Lieutenant involvement**
- **Clarification of the project**
- **Dispel rumors**
- **Address “Management“ & “big brother” concerns**
- **Give new concept of a “Silent Code 6” button**
- **Address the IAB/ICIB fears**
- **Have NIJ speak to all stakeholders as to the intent of the project**

Future Concept



- **“Silent Code 6” feature built into radios**
- **Dispatcher to acknowledge when “silent code 6” is activated**
- **Vibration confirmation on the deputy’s unit**
- **Ability to push a button to reset the device**
- **Automatic notification to dispatcher when inactivity or no change in status**
- **Ability to see each user on a map in the patrol cars**

Deployment - Union Concerns



- **LASD project managers met with Employee Relations and Union**
- **Inaccurate information was given to potential volunteers**
- **Union monthly newsletter**

What have we learned so far.



- Engage Stakeholders early
 - Station Captains, volunteer personnel, union
- Train and re-train
- Feedback
 - Deputies are requesting to keep the technology after the pilot project is complete
 - Deputy opinions, device on person vs. in car



Personnel Position/Location Technology for Law Enforcement Overview

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