

COUNTY OF KANE

Christopher J. Lauzen
Kane County Board Chairman



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DOCUMENT VET SHEET

for
Christopher J. Lauzen
Chairman, Kane County Board

Name of Document: Contract for Services, Global Positioning Services & Monitoring Services

Resolution No.: #13-183

Submitted by: Lisa Aust, Executive Director

Dept. Head Signature: *Lisa Aust*

Date Submitted: 7/15/13

Dept. Head Sign-off Date: 7/15/13 07/17/13

Examined by: Erin M. Gaese

(Print name)

Erin M. Gaese

(Signature)

7/30/13

(Date)

RECEIVED

JUL 19 2013

KANE COUNTY BOARD

Post on the Web: YES NO Atty. Initials CA

Comments:

Chairman signed: YES NO

8/2/13

Document returned to: Lisa Aust

(Name/Department)

STATE OF ILLINOIS

COUNTY OF KANE

RESOLUTION NO. 13 - 183

**APPROVING GLOBAL POSITIONING SYSTEM CONTRACT
(Court Services)**

WHEREAS, the Cindy Bischof Law, which was effective January 1, 2009 and requires that offenders pending charges or convicted of Violation of Order of Protection may be ordered to active Global Position Satellite Monitoring by the judiciary; and

WHEREAS, to comply with the law, Court Services issued a Request for Proposal for equipment rental and vendor services; and

WHEREAS, three vendors responded on RFP 08-013 GPS Systems and Monitoring Services for the provision of active Global Positioning System equipment and services; and

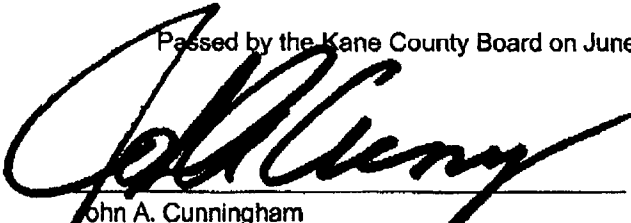
WHEREAS, 3M Electronic Monitoring Services scored highest among the vendors based upon their ability to provide a functional one piece unit, quality of software, cost, functionality of the bracelet and references, and has satisfactorily provided these services to the County; and

WHEREAS, the County has reviewed other systems and equipment and has determined that a contract with 3M Electronic Monitoring Services is in the best interest of the people of Kane County.

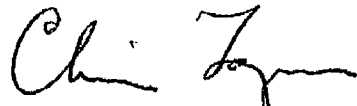
NOW, THEREFORE, BE IT RESOLVED by the Kane County Board that the Chairman be, and hereby is authorized to enter into a contract with 3M Electronic Monitoring Systems for the provision of Global Positioning System and Monitoring for two (2) years with a mutual option for two (2) additional one year renewal periods.

Line Item	Line Item Description	Was personnel/item/service approved in original budget or a subsequent budget revision?	Are funds currently available for this personnel/item/service in the specific line item?	If funds are not currently available in the specified line item, where are the funds available?
001.430.433.52270	Domestic Violence GPS Equipment Rental	Yes	Yes	N/A

Passed by the Kane County Board on June 11, 2013.



John A. Cunningham
Clerk, County Board
Kane County, Illinois



Christopher J. Lauzen
Chairman, County Board
Kane County, Illinois

Vote: 24
 Yes
 No
 Voice
 Abstentions
 BGPS

CONTRACT FOR SERVICES
Global Positioning Services & Monitoring Services

PURCHASER: **KANE COUNTY COURT SERVICES**
Kane County Judicial Center
37W777 Route 38, Suite CS100
St. Charles IL 60175-7532
630-232-5805

CONTRACTOR: **3M ELECTRONIC MONITORING, INC.**
1838 Gunn Highway
Odessa, Florida 33556
630-362-5537

This agreement is entered into and will be effective as of the date of final execution of this contract between the COUNTY OF KANE (the County) a body corporate and politic existing under the laws of the State of Illinois and a unit of local government under §1 of Article VII of the Illinois Constitution (Ill. Const. Art. VII, §1) and 3M ELECTRONIC MONITORING INC. (the Contractor). For and in consideration of the mutual promises set forth herein, the parties agree as follows:

§1. Purpose of agreement

The county hereby retains the Contractor to provide Global Positioning Services and Monitoring Services to accomplish the primary goal of legislation which is protection of the victim from harm. In addition, the Contractor must provide monitoring of the offender to insure compliance with conditions of release, probation, or conditional discharge and provide the necessary support services or programs.

§2. Scope of Services

The services to be provided by the Contractor (the "Work"), are set forth in the Contractor's Response to the Request for Proposal 08-013 GPS System and Monitoring Services dated January 17, 2013 (hereafter "Exhibit 1").

§3. Relationship of parties

The Contractor will perform the Work for the County. The relationship between the parties is that of buyer and seller of professional services and as such the Contractor is an independent contractor of the County in the performance of the Work and it is understood that the parties have not entered into any joint venture or partnership. The Contractor is not an employee or the agent of the County for any purpose.

§4. Payment for Services

The County will be billed by the Contractor at the rates set forth in Exhibit 1. The Contractor will submit to the County an itemized monthly invoice reflecting the Work completed within the preceding calendar month. The monthly invoice will include a summary of all previous invoices up to, and including, the invoice for the current month. The County will pay each such invoice within 45 days of its receipt.

§5. Effective Date

The term of this agreement will commence as of the date hereof and continue, unless earlier terminated in accordance herewith, for two years, with the option to extend the agreement in one year increments, for a total extension of two years, by agreement of the parties in writing.

§6. Terms and conditions

The Executive Director of Kane County Court Services or her written designee (hereinafter referred to collectively as the "Director") shall act as the County's representative with respect to the Work and shall transmit to and receive from the Contractor information with respect to the Work. The Contractor shall coordinate all work through the Director and shall report results of all Work directly to the Director.

- (a) The Director may, by written order, make changes in specific Work items if such changes are within the scope of services set forth in Exhibit 1. If any such change is not within the scope of services the Contractor will so notify the Director and will submit a proposed change order reflecting an increase or decrease in the Work. Rates for additional work will be those set forth in Exhibit 1. No such change order will be effective to modify this agreement unless it has first been reduced to writing and approved by all undersigned parties.
- (b) The County may, any time and without cause, upon 60 days' notice terminate this agreement before completion of the Work. Upon termination, the Contractor will cease all work under this agreement and will turn over to the County all information, records, documents, data, property, publications or other material theretofore received or prepared by the Contractor under or resulting from this agreement all of which will become the property of the County. The Contractor will submit a final invoice for all work done through the date of termination which will be paid within 45 days of its receipt. In the event of termination, only actual time spent and expenses incurred in the performance of the Work prior to termination will be compensated. The County will have no liability for lost profits, overhead or other consequential or incidental damages. In the event of termination, the County will be free to abandon the work or retain another consultant to complete the Work.

- (c) The obligations of the County under this agreement are contingent upon the prior appropriation of funds by the Kane County Board if applicable.
- (d) The Contractor will maintain books, records, documents, timesheets, and other evidence pertinent to its performance of the Work according to generally accepted accounting principles and practices consistently applied. The County or its authorized representatives will have access to such books, records, documents and other evidence for inspection, audit, and copying. The Contractor will provide appropriate facilities for such access and inspection during normal business hours.

§7. Ownership of Documents and Confidentiality

All documents, including all original drawings, specifications, tables and data prepared or collected in the course of the Work are and remain the property of the County; shall be maintained as confidential property of the County, shall not be disclosed in whole or in part, to any non-parties to this agreement except at the direction of the County. All data obtained from the County, including digital mapping information, is to be used solely for the purpose of the Work and shall not be retained by the Contractor for use in any other manner.

§8 Responsibility of Contractor

The Contractor shall perform the Work in accordance with generally accepted and currently recognized practices and principles applicable to the performance thereof and in a manner consistent with that level of care and skill ordinarily exercised by professionals currently performing such work in the same locality under similar conditions. The Contractor represents and warrants that it has thoroughly reviewed the Work as outlined in Exhibit 1; that it is thoroughly familiar with the field of knowledge bearing upon the performance of the Work; that the Contractor has any and all licenses, permits or approvals necessary or appropriate to perform the Work; and that it can produce the Work within the term of this agreement and for the compensation stated herein.

§9. Indemnity

The Contractor shall indemnify, defend (with counsel reasonably satisfactory to those parties to be defended) and hold the County, its elected officials, the Committee, the Director and their respective agents and employees, harmless from any and all claims, demands, liabilities, damages, loss, cost or expense (including attorneys' fees and experts' fees) for or on account of any injury or damage which may arise or which may be alleged to have arisen out of or in connection with, or as a result of any negligent acts, errors and/or omissions of the Contractor, its subcontractors, and their respective employees and agents, in performing the Work, including, but not limited to, claims for release or disposal of hazardous substances or wastes under CERCLA, RCRC, or any similar federal or state environmental law or regulation.

§10. Insurance

Contractor to furnish and deliver prior to commencement of work, a completed Certificate of Insurance satisfactory to the requirements of County of Kane containing:

- (a) The Contractor and all Subcontractors shall provide a Certificate of Insurance naming the Owner (Kane County) as certificate holder and as additional insured. The certificate shall contain a 30-day notification provision to the owner (Kane County) prior to cancellation or modification of the policy.
- (b) Commercial General Liability insurance including Products/Completed Operations, Owners and Contractor Protective Liability and Broad Form Contractual Liability. The exclusion pertaining to Explosion, Collapse and Underground Property Damage hazards eliminated. The limit of liability shall not be less than the following:

General Aggregate	\$2,000,000
Products and Completed Operations	\$2,000,000
Personal and Advertising Injury	\$1,000,000
Each Occurrence	\$1,000,000
Or - Combined Single Limit	\$1,000,000

- (c) Products and Completed Operation coverage is to remain in force for a period of two years after the completion of project.
- (d) Business Automotive Liability Insurance including owned, hired and non-owned automobiles, and/or trailer and other equipment required to be licensed, with limits of not less than the following:

Each Person for Bodily Injury	\$1,000,000
Each Occurrence for Bodily Injury	\$1,000,000
Each Occurrence for Property Damage	\$1,000,000
Or - Combined Single Limit	\$1,000,000

- (e) Statutory Worker's Compensation insurance shall be in accordance with the provisions of the laws of the State of Illinois, including Occupational Disease Act provisions, for employees at the site of the project, and in case work is sublet, the Contractor shall require each Subcontractor similarly to provide this insurance. In case employees are engaged in work under this contract and are not protected under the Workers Compensation and Occupational Disease Act, the Contractor shall provide, and shall cause Subcontractor to provide, adequate and suitable insurance for the protection of employees not otherwise provided.
- (f) Umbrella Liability:

Aggregate Limits	\$2,000,000
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- (g) Professional Liability policy to cover all claims arising out of the Contractor's operations or premises, Sub-contractors operation or premises, anyone directly employed by the Contractor or Sub-contractor, and the Contractor's obligation of indemnification under this Contract.

Limits:

Aggregate	\$1,000,000
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Agency to furnish a copy of the Endorsement showing Kane County, as an additional named insured on the General Liability, Auto, and Excess policies.

The Contractor shall cease operations on the projects if the insurance is cancelled or reduced below the required amount of coverage.

§11. Equal Employment Opportunity

Section 6.1 of the Illinois Department of Human Rights Rules and Regulations is hereby incorporated herein by this reference as though fully set forth.

§12. No Subcontracts

The Contractor will be held responsible for the performance of the Work. No part of the Work may be the subject of a subcontract between the Contractor and any other person without the prior written consent of the Director.

§13. Notice

Any notice, invoice, certification or communication required or permitted hereunder shall be sufficiently given if served personally, sent via fax, or sent by first class mail, postage prepaid as follows: To the County; Executive Director of Kane County Court Services, Kane County Judicial Center 37W777 Route 38 Suite 100, St. Charles IL 60175 Phone 630-232-5805.

Notice via fax shall be effective as of the date and time set forth on the fax transmittal sheet produced by the sending fax machine. Notice by first class mail shall be effective four days after mailing.

§19. Miscellaneous

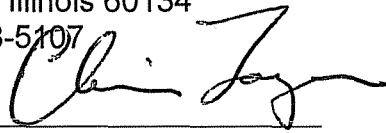
- (a) This agreement constitutes the entire agreement between the parties and supersedes any prior agreement relating to the subject matter hereof. This agreement may be modified or amended only by a duly authorized written instrument executed by the parties hereto.

- (b) The agreement shall be governed by and construed in accordance with the laws of the State of Illinois. Any action brought under or which relates to this agreement shall be brought in Kane County, Illinois.
- (c) This agreement shall be binding upon and shall inure to the benefit of the parties and their successors and assigns, provided that neither party may assign, sublet, sell, or transfer its interest in this agreement without the prior written consent of the other.
- (d) The waiver by one party of any breach of this agreement or the failure of one party to enforce at any time, or for any period of time, any of the provisions hereof, shall be limited to the particular instance and shall not be deemed to be a waiver of any future breach or a waiver of any provision of this agreement.
- (e) Nothing in this agreement shall be construed as creating any personal liability on the part of any officer, employee or agent of any public body that may be a party to this agreement, nor shall it be construed as giving any rights or benefits under this agreement to anyone other than the parties hereto.
- (f) All exhibits (Exhibit 1) referred to in this agreement are attached and by this reference incorporated herein as though fully set forth.
- (g) This agreement may be executed in any number of counterparts, all such counterparts taken together constituting but one and the same agreement.

If any action is filed under or relating to this agreement, the non-prevailing party (as determined by the Court) shall pay, in addition to all other amounts which the non-prevailing party may be ordered to pay, the prevailing party's costs, expenses and reasonable attorney fees.

The County of Kane
 719 S. Batavia Avenue, Bldg. A
 Geneva Illinois 60134
 630-208-5107

3M Monitoring, Inc.
 1838 Gunn Highway
 Odessa Florida 33556
 813-749-5454

By: 
 Signature

By: _____
 Signature

By: Chris Lauzen
 Printed

By: Alejandra A. Lang
 Printed

Title: Kane County Board Chairman

Title: President

Date: 8/2/13

Date: _____

Exhibit 1
STATEMENT OF WORK
For
GPS SYSTEM AND MONITORING SERVICES

Section I: General Systems Information

1.1 TECHNICAL REQUIREMENTS

Technical Specifications – GPS Monitoring – as updated 10/08/08		
GPS TRACKING UNIT		
Yes		The unit must be FCC certified, lightweight, and pose no safety hazard to the offender or others. <i>Provide FCC ID number, weight of unit, warranty information.</i>
Yes		The tracking unit must function reliably under normal environmental and atmospheric conditions. <i>Provide test data.</i>
Yes		The GPS tracking unit must either: 1) incorporate a radio frequency receiver and receive RF signals from an offender-worn transmitter (i.e. “two piece system”); or 2) Attach to the offender as a bracelet (i.e. “one piece system”).
Yes		The unit must transmit data, including offender’s monitoring status and GPS tracking points, via wireless networks to a central host system operated by the vendor.
Yes		The GPS tracking unit must have the ability to roam on other networks other than those of the primary wireless provider. This ability must be built-in to the unit and must not require “swapping out” of components or SIM cards.
Yes		After department personnel have used the Web-based software to establish schedule and zone (inclusion and exclusion) parameters, said parameters must be stored on both the GPS tracking unit and on the vendor’s central host system simultaneously. The GPS tracking unit must independently verify and record parameter compliance/violations without further communications with the central host system. This includes both equipment violations and zone violations <i>The proposal must describe how the proposed system would accomplish this.</i>
Yes		The tracking unit must include an internal clock and must date/time stamp all recorded events.
Yes		When the GPS tracking unit recognizes that a violation has occurred, the unit must log the violation on-board and initiate a data transfer with the central host system, regardless of the next preset “call-in” time. The central host system/vendor must immediately notify the department and/or other identified persons (e.g. victims, officers, law enforcement) of the violation. <i>Provide information and sample data re: elapsed time between violation and notification(s).</i>
Yes		The unit must automatically identify and send key event and general information to the central host system pertaining to the activities of the offender, the unit, and the transmitter as follows: 1) Unauthorized absence from inclusion zones (i.e. residence or place of employment, etc.) 2) Equipment malfunctions (all installed components).

	<ul style="list-style-type: none"> 3) Tampering with equipment (all installed components) 4) Power degradation (low battery) 5) Location verification failure (includes loss of GPS signals) 6) Missed calls from the tracking unit. 7) Exclusion zone violations (The offender traveled to an unauthorized location) 8) The location and movement of the offender.
Yes	Violation notification must be initiated by GPS tracking units rather than by the vendor's central host system, thereby ensuring near real-time notification of violations to department.
Yes	The system must have the ability for department personnel on-demand to be informed of the location of the unit. Department personnel must be able to utilize this feature by placing a "location request" through the web-based GPS tracking software. This feature must provide up-to-date, on-demand tracking, mapping, and location data.
Yes	Departmental personnel and/or monitoring center must be able to communicate with the offender through the GPS unit.
Yes	The GPS tracking unit must have the capability to notify the offender of instances of non-compliance. The unit must be able to notify the offender of such instances even in the absence of communications with the central host system.
Yes	The unit must have the ability to continue to record and store monitoring data in the event of a communications disruption with the central host system. <i>Indicate data storage time lengths.</i>
Yes	The unit must have the ability to store all monitoring data in the event of an extended power failure. Once communication and power is restored, the unit must transmit all data to central host system. <i>Indicate time limits and provisions for back-up.</i>
Yes	The unit must be equipped with tamper detection and a notification system that records a violation if/when the unit's case is opened and notifies the central host system of such violations.
Yes	The unit must be equipped with tamper detection and a notification system that records a violation if/when the unit's battery is removed and notifies the central host system of such violations.
Yes	The GPS tracking unit must incorporate a system that can detect motion in the absence of both GPS and cellular availability. The unit must log whether or not the unit is in motion. <i>Vendor must describe the motion detection system incorporated.</i>
Yes	The unit must have the capability to record a violation if/when the unit has simultaneously been in motion and has not received GPS signals for a predetermined amount of time. The unit must be able to notify the central host system of such violations during the next data transfer.
Yes	If the GPS tracking unit "docks" in a charging system, the GPS tracking unit must record the time/date of every insertion into the base and every removal from the base. The tracking unit's ability to detect motion shall remain active while unit is docked.
Yes	The unit must record and store GPS tracking points with corresponding time/date stamps multiple times per minute, regardless of violation status.

Yes		The unit must have a battery life exceeding 12 hours between charges.
Yes		The unit must be manufactured in an ISO 9001:2000 – certified facility to ensure quality control or have a quality control system in place.
Yes		The unit must be legally patented and in compliance with U.S. patent laws.
If a one piece system (i.e. GPS tracking unit is affixed to the offender's ankle):		
Yes		The unit must be water-resistant. <i>Provide depth of water-resistance.</i>
Yes		The unit must recognize the unauthorized severing of the strap. <i>Please indicate how your system works.</i>
Yes		The unit must have dual tamper detection utilizing electronic and fiber optic mechanisms.
Yes		The unit must be capable of being attached to the offender so that efforts to tamper with or remove the transmitter are obvious to visual inspection.
Yes		Transmitter straps must be adjustable to fit any size offender.
Yes		Once the unit detects a strap tamper violation, it must send a unique "tamper" signal to the central host system to alert department staff of violation.
Yes		The unit must have batteries which are easily charged and must "plug" into standard power supplies. Charging system must be secure, lightweight, and accommodate 110V (domestic) and 220V (international) power supplies. Charging system must include a light to indicate whether the GPS tracking unit is charging or has a full charge, as well as light to indicate low battery. Tracking unit must have ability to notify offender of low battery (sound or vibration). <i>Describe charging system including charge time needed.</i>
If a two piece system (i.e. GPS tracking unit communicates to a radio frequency transmitter which is attached to the offender's ankle):		
Yes		The GPS tracking unit must be charged with a vendor-supplied lightweight charging base, which accommodate 110V (domestic) and 220V (international) power supplies. The charging base must include a light or display to indicate whether the GPS tracking unit is charging or has a full charge or a low battery light. The unit must have the ability to notify offender of low battery (sound or vibration).
Yes		The offender must be able to remove the GPS tracking unit while at home. During these times, the unit must maintain continual monitoring of the offender, verifying the offender's proximity (150 feet maximum) to the tracking unit. <i>The Vendor must describe how the proposed system would accomplish this.</i>
Yes		The Vendor must provide a FCC-certified transmitter in the form of a lightweight, water resistant ankle bracelet. <i>Provide FCC number, weight, and depth of water-resistance.</i>
Yes		The transmitter' signal range must be no greater than 300 feet under normal household conditions with a typical range of 75-150 feet.
Yes		The transmitter must emit a signal at a frequency above 900 MHz at least once every 30 seconds.
Yes		The transmitter signal content must identify the offender, the transmitter battery status, and tamper/removal status.
Yes		The GPS tracking unit must report proximity violations (tracking unit not receiving transmitter signal) to the department.
Yes		The transmitter must recognize the unauthorized severing of the strap. <i>Please indicate how your system works.</i>

Yes	The transmitter must have dual tamper detection utilizing electronic and fiber optic tamper mechanisms.
Yes	Once the transmitter detects a strap tamper violation it must send a unique "tamper" signal to the monitoring unit.
Yes	The transmitter signal must be encrypted to discourage duplication.
Yes	The transmitter must be capable of being attached to the offender so that efforts to tamper with or remove the transmitter obvious to visual inspection.
Yes	Transmitter straps must be adjustable to fit any size offender.
Yes	The transmitter must be shock resistant and function reliably under normal atmospheric and environmental conditions; it must not pose a safety hazard or unduly restrict the activities of the offender. <i>Please provide warranty and/or indemnity information.</i>
Yes	The transmitter must have adequate internal power without need for recharging or replacement. <i>Indicate internal power time frames.</i>
Yes	The transmitter must have a battery shelf life of at least two years.
Yes	The transmitter must emit a low power signal 3-5 days prior to battery depletion, to indicate that the transmitter should be replaced.
Yes	The Vendor must provide replacement transmitters.
Yes	Transmitters must be easily replaced in the field.
Software Requirements	
Yes	The Vendor must provide a Web-based software application that provides department personnel with access to the vendor's central host system.
Yes	The application must be accessible by the department through a standard web browser interface utilizing standard HTTP protocol through a high-speed internet connection.
Yes	The application must utilize security protocols that will prevent unauthorized access to the database and the offender information contained therein. <i>The vendor shall describe how the proposed system would accomplish this.</i>
Yes	The application must not require installation on department computers.
Yes	This application must be the single point for the department to setup and access information relative to GPS.
Yes	The application must allow department personnel to view information about the offender, including but not limited to personal information, current electronic monitoring data, historical electronic monitoring data, violation statuses, notification settings, and reports.
Yes	The application must allow department personnel to enroll/edit/remove offenders without calling the monitoring center.
Yes	The application must allow department personnel to create, edit, delete, and apply monitoring parameters (such as daily/weekly schedules) for individual offenders of groups of offenders.
Yes	Department personnel must be able to use the application to determine which violations/events must trigger notifications and by what means the notifications must be sent to department personnel.
Yes	The application must allow notifications to be sent to department personnel via email, text message/page, and facsimile. <i>Provide examples of capability.</i>
Yes	The application must also allow the department's personnel to enter information to

	initiate multiple alert notifications (e.g. victims, officers, law enforcement) for specified key events or non-compliance with monitoring parameters.
Yes	The application must allow department personnel access to multiple online reports regarding inventory, offender status, and violations.
Yes	The application must allow department personnel to filter report results by violation/event.
Yes	Department personnel must be able to use the application to create, edit, and apply inclusion zones (areas in which the offender must be) and exclusion zones (areas in which offenders are not permitted to be). Zones are to be able to be "free-formed" if necessary, and, if created through a ready to use feature in the program, have a radius that is equidistant from the center of the protected area.
Yes	Department must be able to create schedules for offenders and apply zones to these schedules.
	Application must have the ability to display statuses and histories of, at a minimum, the following violations: a) Proximity to transmitter (if two piece system) b) Strap tamper c) Inclusion zone violation d) Exclusion zone violation e) GPS tracking unit in motion with no GPS f) GPS tracking unit case tamper g) Battery levels/charging history
Yes	The application must enable department to find up-to-date location and monitoring information for any offender. This "location request" function must display offender location within two minutes of request unless wireless coverage is unavailable.
Yes	The application must display the physical location of the offender on an interactive map containing recognizable state, county, municipality, and street names.
Yes	The application must display every GPS point recorded by field units. As an example, if the tracking unit records six GPS points per minute, the application must display all six points on the tracking map rather than omitting some of the points.
Yes	The application must allow department personnel, when viewing GPS tracking maps, to easily zoom in and out by dragging the mouse to designate an area and clicking.
Yes	The application must allow department personnel, when viewing GPS tracking maps, to "rewind" and "fast forward" through the GPS tracking points.
Yes	The application must allow the department's officers to easily view the actual speed of the offender at each recorded tracking point.
Yes	The application must allow the department's officers, when viewing GPS tracking maps, to easily determine the approximate address of any tracking point.
Training	
Yes	Vendor must provide a minimum of at least one and up to four initial group training sessions for staff members concerning the operation and installation of the monitoring equipment and systems specified under this contract. This training will take place in a location specified by the department. The training will include written instructions concerning use of the monitoring system and equipment.
Yes	The Vendor will provide additional training as needed, when requested by the

	department. The department will limit such additional training sessions to those situations where the training is required to properly implement and operate the monitoring program.
Yes	The Vendor must provide written instructions/users guides enabling department personnel to install and service all equipment provided.
Ongoing Support	
Yes	The Vendor shall appoint a project manager who will also act as contact and liaison for the department. The project manager will schedule on-site visits with the department to review monitoring performance and to make any needed changes.
Yes	Vendor support personnel must be available via toll-free telephone number to the department at all times. Support personnel must be awake, rather than on-call, and must not be subcontracted. Vendor support personnel shall have the ability to complete offender enrollments, adjust monitoring parameters, complete offender removals and assist department staff with technical problems for all monitoring systems via telephone. (Please provide number of staff assigned to monitoring center per shift.)
Yes	Staffing of vendor support personnel shall be maintained at adequate levels to ensure immediate responses to field officer inquiries and established offender violation protocols. (Please provide average call wait times, if any, and violation response times.)
	The Vendor shall provide GPS point tracking accuracy confirmation upon request.
Maintenance and Support	
Yes	The Vendor shall provide maintenance of the equipment for the length of the contract at no additional cost. The Vendor shall maintain the equipment and spares in good operating condition and arrange for repair or replacement of equipment within 24-36 hours. <i>Describe your repair and replacement policies.</i>
Inventory	
Yes	The Vendor shall provide additional equipment for the department's inventory as needed; additional inventory must arrive within 24-36 hours of a request by the department. <i>Please describe inventory protocol and shipping charges attached to providing equipment.</i>
Central Host System	
Yes	The central host system, the repository of all monitoring data received from field units, must not be located at the department's facility and must be the responsibility of the vendor.
Yes	The central host system shall be protected from a system failure and the loss of data by the presence of a real-time redundant data protection system. All host system components must be 100% redundant. Specifically, the system shall be in constant contact with a redundant system. Both systems shall be configured to maintain the same data so that in the event of a system failure, the redundant system will seamlessly continue all monitoring functions. The vendor must also maintain a third-tier failsafe system, at least 10 miles away from primary and secondary systems, which can be used in the case of primary and secondary system failure. Vendor must describe steps taken and equipment used to provide redundancy and ensure data preservation.
Yes	The central host system must have the ability to continue monitoring operations

		indefinitely in the event of an AC power loss.
Yes		The central host system must send and receive information to and from the GPS tracking units utilizing cellular phone service/signal technology.
	Testing	
Yes		The Vendor must allow the department to test the equipment and system for at least 48 hours to determine the reliability of the tracking system and the compliance with all requirements set forth above. The vendor must instruct a few employees of the department on the mechanics of installing the equipment and on how to access and operate the tracking system during the testing period. Reliability of the tracking in various locations and under various conditions will be a major factor in the awarding of the bid.

Point-By-Point Response Detail – GPS Tracking Unit

The unit must be FCC certified, lightweight, and pose no safety hazard to the offender or others.

The 1 piece (WMTD) is designed to be as small and discrete as possible with safety and convenience of installation as a high priority. The device is lightweight and easy to secure on the ankle without any special tools needed for installation of the monitoring unit or bracelet; a pair of scissors is required to cut the strap for size. Cutters will be provided by Contractor to Kane County. The device dimensions: 2.92W x 4.38H x1.89D inches, weight: 6.0 ounces, FCC ID: NC3WMTD3418, battery life: minimum 40 hours of operation, memory: stores 67,000 events >= 1 month. Contractor will keep parts, batteries, straps and installation kits and daily rate includes routine maintenance and repair on all leased equipment for the duration of the Contract; deliberate damage is excluded. 3M will provide Kane Count with the most current hardware and firmware available.

3M Limited Warranty

3M warrants to the County as follows: (i) that the Equipment and the services shall be free of defects I workmanship and material and shall operate in accordance with and substantially conform to the documentation provided by 3M (which is materially accurate and complete); (ii) that 3M shall correct any such defect or nonconformance by repair or replacement at 3M’s expense; and (iii) that all work and services provided by 3M under this Agreement shall be performed by qualified personnel in a professional and workmanlike manner, and; (iv) that the Equipment is intended for offender tracking purposes and is NOT intended to deter prevent crime. Except to the extent prohibited by applicable law, this warranty, unless otherwise stated, is made in lieu of all other warranties, rights or conditions, express or implied, including , but not limited to, any implied warranty of merchantability, fitness for a particular purpose and those arising from a course of dealing, custom or usage of trade. County is responsible for determining if equipment fits the particular purpose and is suitable for the intended use. This limited warranty is intended as the exclusive remedy of County with respect to any claim for damage, liability, or expense resulting from or due to the condition, malfunction, or failure of the Equipment and Services, whether or not the failure of the

Equipment or Services in any respect arises out of the negligent acts or omissions of 3M, its agents, or employees.

Intentional Damage and Obliterating Markings: The County agrees i) County shall not intentionally damage the Equipment (and 3M shall have no responsibility to repair or replacement of any Equipment intentionally damaged by County or program participants); and ii) County shall not obliterate or remove any markings placed on the Equipment except as agreed by 3M.

The tracking unit must function reliably under normal environmental and atmospheric conditions.

Functions Reliability – The equipment is extremely rugged; designed and built to take a lot of abuse. All devices are tested to the exacting standards of IEC60529.

Operating and Stored Temperature – Devices are subjected to both high (55°C) and low (-25°C) temperatures. Each unit must survive the test without any damage, but also operate during and after the 24 hours of testing at each extreme. The 1 Piece (WMTD) passed the testing. The WTMD is equipped with temperature sensors to record any extreme temperatures to which the unit is exposed.

Shock and Vibration – The device is shock and vibration resistant to a laboratory standard that subjects the unit to rigorous testing of both plastics and electronics.

Water Resistance/Waterproof – The 1 Piece (WMTD) is waterproof to three atmospheres, or 45psi, about 66 feet underwater. The waterproof tests are conducted in a water chamber.

Safety standards – All proposed equipment is in compliance with mandated market safety standards and all will have the necessary FCC Grants and UL Certification (when needed). Body worn devices are manufactured using hypoallergenic material for the housing and the strap and are designed with no sharp edges that could result in excessive bruising or chafing of the offender or cause safety hazards for staff. Ankle-worn devices are designed to be torn away when subjected to a normal force of approximately 40Kgs. EMTs can cut the device away using standard sheers; this will generate a strap alert.

Tamper Resistance – WMTD electronics are housed in a rugged case that is sealed completely.

Device Tamper Detection – The moment a device detects tampering, an automated Tamper notification is sent out.

Strap Tamper Detection – Body worn devices employ a means of detecting that a strap has become disconnected. This is achieved by transmitting an encoded IR signal through the fiber optic light pipe embedded in the strap. An interruption of the transmission results in a strap tamper alarm. The WMTD has the capability of detecting and reporting extended periods of no motion.

The GPS tracking unit must either:

- 1) incorporate a radio frequency receiver and receive RF signals from an offender-worn transmitter (i.e. “two piece system”); or
- 2) Attach to the offender as a bracelet (i.e. “one piece system”).

The 1 Piece WMTD attaches to the offender as an ankle bracelet

The unit must transmit data, including offender's monitoring status and GPS tracking points, via wireless networks to a central host system operated by the vendor.

The 1 Piece WMTD transmits data via wireless network to the secure 3M Electronic Monitoring Data Center. With every GPS tracking point, the device reports:

- Offender Name
- Date and time
- Offender's speed
- Compass orientation
- Latitude and longitude
- Violation status
- Violation details
- Battery status
- Number of satellites in the GPS solution

The GPS tracking unit must have the ability to roam on other networks other than those of the primary wireless provider. This ability must be built-in to the unit and must not require "swapping out" of components or SIM cards.

The devices are compatible with multiple wireless carriers for data communication and are certified for use on both AT&T and T-Mobile networks

After department personnel have used the Web-based software to establish schedule and zone (inclusion and exclusion) parameters, said parameters must be stored on both the GPS tracking unit and on the vendor's central host system simultaneously. The GPS tracking unit must independently verify and record parameter compliance/violations without further communications with the central host system. This includes both equipment violations and zone violations

The 1 Piece (WMTD) is an autonomous GPS device. The unit contains a GPS receiver that gives it the capability of autonomously calculating its exact position using data transmitted by the U.S. Government's Global Positioning System satellites to establish and track an offender's location. The unit has onboard processing and all rules are stored right in the device and updated at each download. The unit can track independent of the availability of a wireless signal and communicate with the server. Upon noncompliant behavior, the device goes into alarm and does not wait for the next scheduled call to the system, but instantly initiates contact, downloading all tracking data. When the device violates a geographic zone, it instantly goes into alarm, delivering immediate notification to the offender without waiting for the next scheduled check in and at the same time, initiating contact to download its tracking data to the system. While in violation, the device collects one GPS point every 15 seconds.

The tracking unit must include an internal clock and must date/time stamp all recorded events.

The 1 Piece WMTD incorporates a highly accurate quartz clock and at each download, its internal clock is adjusted to the server's for any millisecond offset. It marks the exact date and time of every monitoring event. When the 1 Piece WMTD reports data, the file received includes the date/time of each recorded event, as well as the server's stamp of the time it was downloaded and the time of all related data transactions.

When the GPS tracking unit recognizes that a violation has occurred, the unit must log the violation on-board and initiate a data transfer with the central host system, regardless of the next preset "call-in" time. The central host system/vendor must immediately notify the department and/or other identified persons (e.g. victims, officers, law enforcement) of the violation.

The device recognizes instantly when a violation has occurred, timestamps the violation on-board, and initiates contact with the system regardless of the next scheduled download. The System recognizes the time-stamped violation and generates an immediate notification to all contact(s) the Contractor personnel have specified in the software.

The unit must automatically identify and send key event and general information to the central host system pertaining to the activities of the offender, the unit, and the transmitter as follows:

- 1) Unauthorized absence from inclusion zones (i.e. residence or place of employment, etc.)**

Zone Violation Notification: The rule of a specified geographic zone has been violated. 3M Electronic Monitoring provides automatic and instantaneous notification for all inclusion and exclusion zone violations according to agency protocol. The device provides the zone type and name for each violation (for example, "Inclusion Zone: Home"); officers can choose whether or not an offender is notified, zone by zone.

- 2) Equipment malfunctions (all installed components).**

Internal Diagnostics: The 1 Piece (WMTD) contains internal diagnostics that run on a constant basis. The device continually evaluates power capabilities, modem functionality, GPS receiver status, processor performance etc. Any irregularities are

immediately reported to the server for processing and notification. We even go one step further; our device has a self-test feature that can be run prior to activation in order to verify all of the following:

- The internal battery is tested to ensure an adequate charge
- The GPS unit is tested to ensure it is receiving signals
- Communications to the Central Monitoring Center via GPRS is confirmed, and
- Tamper points are verified to be normal

3) Tampering with equipment (all installed components)

Device Tamper Notification: The device itself has been compromised. The device contains an internal light sensor and any breach of the housing will trigger an instantaneous tamper alarm with notifications according to agency protocol.

Strap Tamper Notification: The Bracelet strap has been cut or removed. The device's strap utilizes an embedded fiber optic light pipe to complete an encoded circuit around the offender's ankle. The fiber optic circuit provides tamper detection that has proven to be very accurate in reporting tamper events. Any disruption in the circuit triggers an immediate strap tamper alarm with notification according to agency protocol.

4) Power degradation (low battery)

Low Battery Notification: The 1 Piece (WMTD) is always monitoring and reporting its battery status with every GPS point; indicating it to the offender via LED on the device and to the officer via an icon on the dashboard in the software. The low battery notification is automatic. The offender is notified via a flashing red LED and three bursts from the vibration motor to charge the battery one hour before the device will have to shut down. If the battery is not charging 30 minutes later, an

alarm is generated, notifying the offender via the device and the officer (optional) according to selected protocols. The software dashboard reflects battery voltage and charging activity or shutdown status at all times. Location verification failure (includes loss of GPS signals)

5) Location verification failure (includes loss of GPS signals)

The Tower-Based Tracking (TBT) capability supplements the primary tracking capability by providing an alternate and automatic means of location tracking when the GPS signal is masked or obscured. TBT is always available and requires no manual intervention. It is provided with no limitations and at no additional charge. This key event information is automatically reflected in the mapping software and TBT automatically begins recording and mapping points in the absence of GPS. Kane County will require Tower-Based Tracking for all units.

6) Missed calls from the tracking unit.

Unable-to-Connect Notification: This alert means the device has not called the system as scheduled. When a device does not contact our system at the prescribed time, the system notices the missed call-in and records an Unable-to-Connect (UTC) event with timestamp, duration, and all related information. Additionally, our EM manager software will distinguish the last GPS point downloaded so officers can easily see the last known location. Keep in mind that as long as the battery has power, the device continues tracking and recording data. As soon as communication is restored, the device will call our server to download all tracking data; violations will be processed, notifications generated, and all data can be viewed in our web-based software at any time. Participants are not notified of the Unable-to-Connect (UTC) alarm; however, the Agency is notified in any or all of three ways: by direct communication with the point-of-contact for the Department according to selected preferences (email, text, fax, page); by the Daily Violation Summary Report that is emailed to all specified users daily by 7:00 am; or by direct outbound phone call from our Monitoring Center during business hours. Outbound voice calls are an optional service and are priced on Bid Form A-2 under Other Equipment/Services.

7) Exclusion zone violations (The offender traveled to an unauthorized location)

Zone Violation Notification: The rule of a specified geographic zone has been violated. 3M Electronic Monitoring provides automatic and instantaneous notification for all inclusion and exclusion zone violations according to agency protocol. The device provides the zone type and name for each violation (for example, "Exclusion Zone: Larkin Elementary School"); officers can choose whether or not an offender is notified, zone by zone.

8) The location and movement of the offender.

Motion-No-GPS Notification: In addition to its GPS receiver and ability to continually record its location, speed, and heading, the device also has an advanced three-axis accelerometer that enables it to detect motion in the absence of GPS. The absence of GPS in and of itself is not a cause for concern because it is not unusual for GPS to be unavailable. The offender could be in a known situation, such as indoors under a roof, in which case, the last point is clearly distinguished on the maps and GPS will be re-obtained when the subject comes out of the building. The real cause for concern is when there is motion in the absence of GPS; meaning the offender is moving with no GPS points available. The 1 piece (WMTD) records both. It indicates the No GPS status in the software and, incorporating a three-axis accelerometer, the device records and generates an alarm to provide notification when the device has accumulated 20 minutes of motion within a 60-minute period without receiving a signal from the GPS satellites. This motion detection technology is capable of distinguishing between incidental motion, such as rolling over in sleep or tapping a foot, the movement associated with changing location. The officer is notified of Motion-No-GPS according to selected protocols. Notification to the participant is optional and if selected, is delivered via the device's LED and vibration motor.

Violation notification must be initiated by GPS tracking units rather than by the vendor's central host system, thereby ensuring near real-time notification of violations to department.

Because the device has onboard processing, it knows when it is compliant or noncompliant with its onboard rules and continues to track, collect, and report GPS data according to the agency's prescribed download interval in normal status unless a rule is violated, triggering alarm. The offender's rules are updated by the database at every download interval. In alarm, the device instantly notifies the participant (if selected) and at the same time, initiates contact with the server to download all tracking data. Immediately, it increases point collection to every 15 seconds for the duration of the alarm and continues reporting tracking data at the scheduled intervals.

The system must have the ability for department personnel on-demand to be informed of the location of the unit. Department personnel must be able to utilize this feature by placing a "location request" through the web-based GPS tracking software. This feature must provide up-to-date, on-demand tracking, mapping, and location data.

Download Points

3M monitors offenders in real time and this allows us to provide users with the capability to download any current or previous GPS points on demand for any offender at any time, rather than waiting for the device's next scheduled call in. Officers utilize this feature through the web-based software to obtain up-to-date tracking and location data. In response to the "Download Points" command, our system contacts the device, forcing an immediate download of the most recent GPS points and tracking information. This is known as "pinging" the device. There is no additional charge to "ping" the device or download points.

Departmental personnel and/or monitoring center must be able to communicate with the offender through the GPS unit.

The 1 Piece (WMTD) allows for instant communication in multiple ways, providing participants with continuous indicators of battery status, GPS status, and violation status. It also provides for receipt of communication from supervising officers and for participant acknowledgement of communications and alarms, all of which are recorded and stored in our system.

The device utilizes LED lights and a vibration motor to communicate with the participant. Three bursts of the vibration motor notifies of noncompliance and the alarm signal is one 10-second long vibration that the participant must acknowledge by pressing the button on the outside center of the device. The signal is customizable, prompting the participant to respond according to the pre-arranged response instruction given by the supervising officer at the time of device activation; for example, "Call me within the hour." Three LED lights indicate the following:

LED for Battery Power

- Green = normal status
- Red = battery low—charge battery
- One hour before battery depletion, the LED flashes red and the vibration motor sends notification to the offender with three short bursts. The device continued to vibrate once every 10 minutes until it is on the charger. When charged, the LED turns green.

LED for GPS signal

- Green = GPS available
- Red = no GPS available

LED for Zone Violation Status

- Green = compliant – normal status
- Red= noncompliant – correct behavior
- When LED turns red, the vibration motor also sends a notification to the offender with three short bursts. When the violation clears (behavior corrected), the light returns to green.

The GPS tracking unit must have the capability to notify the offender of instances of non-compliance. The unit must be able to notify the offender of such instances even in the absence of communications with the central host system

Because the device has onboard processing, it knows when it is compliant or noncompliant with its onboard rules and continues to track, collect, and report GPS data according to the agency's prescribed download interval in normal status unless a rule is violated, triggering alarm. In alarm, the device instantly notifies the participant (if selected) whether or not it is able to contact the server and download its data. The device will continue to track, record, and notify the offender of noncompliant behavior even in the absence of communication with our system.

The unit must have the ability to continue to record and store monitoring data in the event of a communications disruption with the central host system.

All of our equipment has non-volatile memory; computer memory that is stable even when not powered. This is crucial to a monitoring program in view of the fact that it is not uncommon for offenders to allow battery failure before recharging. We utilize a type of memory known as flash memory—computer storage chips that can be electronically erased and reprogrammed very fast. It has better kinetic shock resistance than hard disks, and is extremely durable; able to withstand intense pressure, extremes of temperature, and even immersion in water. This enables our devices to continue recording and storing data for as long as the battery is powered—even in the event of loss of communications with our system.

The device will continue its efforts to contact our system and as soon as communication is restored, it will connect and download its data. The WMTD can store more than 30 days worth of data in permanent nonvolatile memory, an ample amount to allow for data storage during communications interruptions.

The unit must have the ability to store all monitoring data in the event of an extended power failure. Once communication and power is restored, the unit must transmit all data to central host system.

Our 1 Piece (WMTD) has the capability to store more than 30 days worth of data in nonvolatile memory; the data storage is permanent. Even if the device loses communication with our system its battery is depleted, the data is stored. Once communication and power is restored, the unit will transmit its data to our system. Even if the device is recovered after weeks or months of a depleted battery, once the battery is charged the data can be recovered.

The unit must be equipped with tamper detection and a notification system that records a violation if/when the unit's case is opened and notifies the central host system of such violations.

The 1 Piece (WMTD) has dual tamper detections—housing and strap. The device itself contains an internal light sensor and any breach of the housing will trigger an instantaneous Tamper alarm with notifications according to agency protocol. Additionally, the device strap utilizes an embedded fiber optic light pipe to complete an encoded circuit around the offender's ankle. The fiber optic circuit provides tamper detection that has proven to be very accurate in reporting tamper events. Any disruption in the circuit triggers an immediate Strap Tamper alarm with notification according to agency protocol. In the event that an offender cuts, severs or otherwise compromises the integrity of the strap, an alarm is generated and notification is sent to the designated officer.

The unit must be equipped with tamper detection and a notification system that records a violation if/when the unit's battery is removed and notifies the central host system of such violations.

For this very reason, 3M devices do not have field replaceable batteries. The tamper resistant device is housed in a rugged and hypoallergenic Lexan® case that is permanently sealed using an ultrasonic welding process. Its design creates an extremely durable case that is so strong that we have to use a milling machine to cut it open so an offender cannot remove the battery. If the device is compromised in any way, it immediately goes into violation status and begins calling the server. If a battery needs to be replaced, the department simply cuts the strap, replaces the device from spare inventory and returns the device to 3M through our RMA process; we replace the unit and pay the shipping both ways.

The GPS tracking unit must incorporate a system that can detect motion in the absence of both GPS and cellular availability. The unit must log whether or not the unit is in motion.

The absence of GPS in and of itself is not a cause for concern because it is not unusual for GPS to be unavailable. The offender could be in a known situation, such as indoors under a roof, in which case, the last point is clearly distinguished on the maps and GPS will be re-obtained when the subject comes out of the building. The real cause for concern is when there is motion in the absence of GPS; meaning the offender is moving with no GPS points available. The 1 piece (WMTD) records both. It indicates No-GPS status in the software and incorporates a three-axis accelerometer to record and generate an alarm notification when the device has accumulated 20 minutes of motion within a 60-minute period without receiving a signal from the GPS satellites. This motion detection technology is capable of distinguishing between incidental motion, such as rolling over in sleep or tapping a foot, the movement associated with changing location. The officer is notified of Motion-No-GPS according to selected protocols. Notification to the participant is optional and if selected, is delivered via the device's LED and vibration motor. Even in the absence of cellular connectivity, the device will continue to record and store information about the movement of the offender without GPS along with the time and date stamps, battery level, and other monitoring information.

The unit must have the capability to record a violation if/when the unit has simultaneously been in motion and has not received GPS signals for a predetermined amount of time. The unit must be able to notify the central host system of such violations during the next data transfer.

When there is motion in the absence of GPS; meaning the offender is moving with no GPS points available, the 1 piece (WMTD) records motion. A Motion-No-GPS violation is recorded in the software and an alarm notification is generated when the device has accumulated 20 minutes of motion within a 60-minute period without receiving a signal from the GPS satellites. This information is transmitted along with all tracking and monitoring information at the next download interval.

If the GPS tracking unit “docks” in a charging system, the GPS tracking unit must record the time/date of every insertion into the base and every removal from the base. The tracking unit’s ability to detect motion shall remain active while unit is docked.

For the device the system records and reports the time of start, finish, and duration of every charging session and the software indicates the charging status right on the offender’s dashboard. The WMTD comes with a durable, easily connected power charger with a 9.5 foot cord for connecting the device to a standard 110V AC wall outlet. The power cord is magnetic, in the event an offender walks away from the wall outlet while charging, or a person or pet trips over the cord, the connection simply pops off and the offender is notified of the disconnect.

The unit must record and store GPS tracking points with corresponding time/date stamps multiple times per minute, regardless of violation status.

Kane County Court Services requires that the unit have the ability to record and store GPS tracking points with corresponding time/date stamps multiple times per minute, regardless of violation status.

Our tracking and monitoring system is very flexible and all parameters can be customized to meet agency needs. Currently, Kane County devices are collecting GPS points every 60 seconds in compliance. If it is important for Kane County’s program to have a more frequent point collection rate than 60 seconds, we will certainly provide it; however it generates a lot more points to review on the maps. Following are our standard GPS monitoring parameters.

Our standard Active GPS monitoring parameters are as follows; however, our system is flexible and parameters can be adjusted to meet Kane County’s needs:

- The device continuously samples GPS
- Stores one GPS point every 60 seconds when in motion
- Stores one GPS point every 15 seconds in geographic zone violation
- Downloads all tracking information every 60 minutes
- Downloads all tracking data immediately upon violation
- Immediate notification of violation to the offender (selectable)
- Immediate notification of violation clear (optional)

Our standard passive supervision parameters are as follows; however, our system is flexible and parameters can be adjusted to meet Kane County's needs:

- Continuously samples GPS
- Stores one GPS point every 60 seconds when in motion
- Stores one GPS point every 15 seconds when in zone violation
- Downloads all tracking information to 3M's Data Center every 4-6 hours (customizable)
- Daily notification of all violations via emailed Daily Violation Summary Report
- Notifications to offenders are individually selectable

The unit must have a battery life exceeding 12 hours between charges.

Our 1 Piece easily exceeds this requirement, delivering at least 40 hours of operation on a full charge.

The unit must be manufactured in an ISO 9001:2000 – certified facility to ensure quality control or have a quality control system in place

3M Electronic Monitoring is an ISO registered company holding certification to the ISO 9001:2008 Quality Management System Requirements. Our robust quality management system (QMS) encompasses formal documentation of our Quality Assurance Program, which includes a written Quality Assurance Plan that is available to County of Kane for review upon request.

The unit must be legally patented and in compliance with U.S. patent laws.

All of the proposed equipment is legal and in compliance with U.S. patent laws. The FCC registration numbers are provided:

- 3M™ One-Piece GPS Offender Tracking Device: NC3WMTD3418
- 3M™ Beacon: LSQ-IDEU-830-4

The 1 Piece system is water resistant to three atmospheres, or 45psi, about 66 feet underwater. The 1 Piece system recognizes the unauthorized severing of the strap by transmitting an encoded IR signal through the fiber optic pipe embedded in the strap. Any interruption of the transmission results in a strap tamper alarm. The 1 Piece has a dual tamper detection utilizing electronic and fiber optic mechanisms. The unit incorporates an electronic infrared light sensor to detect case tamper. Once a sliver of

light is detected, the device goes into alarm, generating an automatic tamper notification to the designated contact. The GPS device attaches to the offender so that any efforts to compromise the tamper plugs or separate device and strap are obvious on visual inspection. Transmitter straps are provided in 11" and 15" lengths that are easily cut to size and longer lengths can be provided as necessary. The 1 Piece system is capable of immediately generating alerts with notifications for the two tamper events; strap tamper and device tamper. The unit has a durable, easily connected power charger included with each device with a 9.5 foot cord for connecting the device. The charger works for either 110V or 220V wall outlet. The LED for battery power indicates battery status at all times, green for normal status, red for battery low, charge battery. One hour before battery depletion the LED flashes red and the vibration motor sends notification to the offender with three short bursts. The device continues to vibrate once every 10 minutes until it is on the charger.

Software Requirements

The Vendor must provide a Web-based software application that provides department personnel with access to the vendor's central host system.

With powerful features for offender supervision, our software has more analytic and administrative management tools than any other tracking software in the world today. The capabilities of our EM Manager include the following:

- SSL and Password Protected
- View offender tracking data using Bing's aerial and 3D maps
- View battery status for any offender: voltage and charging status
- View device status for any offender at any time: GPS, at rest status, GPS accuracy
- View Tower-Based Tracking points
- Assign offender tracking device and supervision level with the click of the mouse
- Enter and modify information—Enrollment/Contacts/Schedules/Zones/Alerts

- Communicate with offender
- Create/modify zones and zone templates
- Manage, address and document all alerts and actions taken by officers
- Color coded violation status
- Search for GPS points of all tracked offenders
- View one or multiple offenders on a single mapping screen
- Direct link to Crime scene correlation tool
- Inventory control and management
- Reports

The EM Manager software is easily accessible through a secure connection from any Internet-capable computer or device by designated personnel with security clearance and security codes.

The application must utilize security protocols that will prevent unauthorized access to the database and the offender information contained therein.

All user-level access is through a combination of username + password. Each user can select an individualized user ID and password containing seven alpha-numeric characters. We place no limit on the number of logins for agencies. The data is transmitted through an encrypted Internet connection using Secure Socket Layers (SSL)—the de-facto standard for data protection and we use 256-bit SSL encryption. Users can login and use our system to enroll, schedule, map and review offender points, rules, and violations, enter case management notes, generate data-rich reports, manage equipment inventory or run our Point Tracking and Offender Tracking Tools. As an additional security feature, a login “times-out” after thirty minutes of idle time, but returns the user right back to the same place upon login.

EM Manager Software does not require any software to be installed on Department computers beyond the browser. EM Manager is the Department’s interface to the offender data. It utilizes a clickable drop-down menu; offenders are enrolled, zoned, ruled, scheduled, activated, mapped, tracked and deactivated can be done through the software.

The application must allow department personnel to view information about the offender, including but not limited to personal information, current electronic monitoring data, historical electronic monitoring data, violation statuses, notification settings, and reports

EM Manager authorized users to not only view, but add and modify all offender information, contact information, supervision level call trees, notes, zones, schedules, curfews, grace periods, notifications methods and priorities, as well as assign, un-assign, and re-assign equipment. All aspects of supervising offenders on our system can be done online through this secure Internet connection without the need of equipment beyond a computer or Internet-capable device, such as a smart phone and the login information is recorded for all entries and modifications to offender information and monitoring information. .

In the software Department personnel can enroll, edit and remove offenders without contacting the Monitoring Center. Authorized users can add and modify offender information, contact information, supervision level call trees, notes, zones, schedules, curfews, grace periods, notification methods and priorities, assign, un-assign and re-assign equipment. All aspects of supervising offenders can be done on-line. Login information is recorded for all entries and modifications to offender information and monitoring information. EM Manager has the capability of differentiating between the priorities of EM violations and has multiple user adjustable defaults and levels. The automated system will notify designated Department staff immediately upon occurrence of a violation. There are four user-selectable notification methods; email, fax, text message and alphanumeric pager. Each user can check boxes in the software to receive notifications per Departmental policy.

The application must also allow the department's personnel to enter information to initiate multiple alert notifications (e.g. victims, officers, law enforcement) for specified key events or non-compliance with monitoring parameters.

EM Manager's Notification Contacts feature allows department personnel to enter as many notification contacts as desired for each offender and to select the preferred notification method for each of those contacts as shown in the illustration of notification selections. For example, the department can choose to enter victim and officer phone numbers in the contacts list and choose which to notify for which violations. Any instance of non-compliance will generate notifications to the contacts selected for that violation and each will be notified by the method selected.

The application must allow department personnel access to multiple online reports regarding inventory, offender status, and violations.

The EM Manager includes a powerful report generator designed to provide our client agencies with many reports across multiple criteria. Already more than 100 reports have been defined. Some of these reports were designed to report data that is pivotal to monitoring offender behavior and some focus on the parameters key to successful program management. The reports are populated directly from the Data Center servers in real time—we never do batched updates. Through our secure Internet connection, EM Manager's report function makes it possible for the Department to view reports online, as well as download data and reports right to desktops and printers. Reports can be generated for any time period simply by entering date/time ranges for the reported data and the system can be configured to allow for different levels of user access for specific reports. The system offers reports under the following categories:

Violations

Violations reports manipulate the fields of information related to violations, presenting the data in many different ways—how often, how many, by caseload, by offender, etc. The Daily Violation Summary Report (DVSR) is both comprehensive and flexible. Most agencies like to have it emailed to selected officers daily; however, it can also be accessed at any time via EM Manager. The report is populated with offenders who had violations within the selected date and time range. It provides a summary list of offenders' violations, violation durations, and current status information. If the DVSR is sent to a supervisor, it will provide information on all of the offenders under supervision. Violations and schedules from the previous day are also provided, sorted by officer or by offender. This report is highly customizable; the data can be sorted by: caseload, offender, or equipment.

Rules

Rules reports are administrative reports that are beneficial for in-house supervision of officers and for officers who want to make sure they have properly and completely enrolled an offender.

Notifications

Notifications reports are good for troubleshooting why things aren't working as expected for notifications; for example, if the officer is not receiving expected notifications, this report would identify why.

Equipment

One of the many report categories in our Reports is Equipment Reports. These reports provide information needed for every type of inventory management; for example, our Equipment Summary Report allows users to view, download, or print all inventoried equipment—both assigned and unassigned—with serial number, equipment type, offender name and number, officer name, and parole office. The report data can also sort by serial number, offender, officer, or office.

Case Management

Case Management reports detail each violation event and show the status of what has been done to address the violation—not to resolve the violation itself, but to address it with the offender.

EM Manager Usage

These are management reports, used to manage the officers and resources of the agency's monitoring program. For example:

- Home Address not Geo-Coded
- Offender's Points View Dates
- Offender Type
- Officer and Contact Comparison
- Offender's Points Not Reviewed
- Usage by User
- Users
- Sentencing Report

Offender Reports

In addition to the above a multitude of other GPS tracking and event information is recorded and reported by our system. Reports include the date and time of the report and all monitoring information generated since the last report. Automatic reports selected by users are provided daily by email or they may be accessed at any time through EM Manager.

The application must allow department personnel to filter report results by violation/event.

Yes; users can search the database for many types of information, reports can be searched and sorted by the different fields, and offender information can be searched on any piece of data to find all offenders in the database that meet the criteria. Each of our reports can be queried, sorted, or filtered by any field contained in the report or by data parameters, and our database also offers two additional tools for searching mapped GPS points:

3M™ Offender Tracking

The 3M™ Offender Tracking Tool provides the capability to view the points of multiple offenders for specific time periods and move through a caseload quickly. It is a very helpful for officers to use in reviewing the points of their caseloads on a regular basis. The user identifies the GPS points he/she wants to see by agency, officer, and day/date.

GPS Points for offenders are quickly mapped and can be played like a movie as well as set to stop on violation. For any period of time for which there was no GPS on an offender, the last known point is rendered in a square point on the map to distinguish it from the others and call attention to it. The points for up to 20 offenders can be mapped at one time and the software will assign a different color to each offender's points. Up to seven days of points can be loaded at one time and the user can move through the caseload one offender at a time simply by clicking "Next."

Points can be viewed by caseload for one date or day of the week, a full week, or a group of days in a month. Additionally, filters can be selected to screen out points that are outside a certain area, to only show points in violation, and those within minimum or maximum speed thresholds. The software assigns a different color to each offender's points, making them easily distinguishable, and also allows users to view the home locations of all the offenders on an agency's contract. This helps agencies to know if offenders are congregating at any homes. GPS Points for offenders are quickly mapped and can be played like a movie, as well as set to stop on violation, displayed altogether, or displayed by offender. For any period of time for which there was no GPS on an offender, the last known point is distinguished on the map and officers can move through their caseloads one offender at a time simply by clicking "Next."

All Offenders Last Points - In addition to the Offender Tracking tool, the View Menu includes an option to View All My Offenders' Last Points. This feature allows officers to view the last points that were generated by all of the offenders in one caseload – a snapshot of all offenders.

3M™ Point Tracking

Point Tracking allows our users to compare the location of a crime to our database of offender GPS points. It provides the capability to search, return, and map the GPS points for all offenders that we monitor. It is a great tool for criminal justice agencies and supervising officers, offering the identities and supervision information for offenders that were in the vicinity of a specific location or event within a specific date/time range.

If an incident occurred at a particular time and location, an officer can query our database for all offender GPS points collected in the vicinity of the crime at the specified date and time and map them. Users define a geographic area as narrowly as possible (an address, for example) and a time/date range of interest. Searches can be executed by an address, latitude/longitude coordinates, or by a specific geographic area.

Users define a geographic area as narrowly as possible—an address, for example—and a time/date range of interest—as short as possible. Searches can be executed by—

- Address, or
- Latitude/longitude coordinates, or
- A specific area that the user defines on the map similar to drawing a zone

The software returns—

- A list of hit durations by identified offenders, and
- Time of entry and exit

- Seconds at rest
- Minimum speed
- Maximum speed
- Violation status for each point during the specified time

The results can be ordered by any of the data fields listed above and can be exported to Excel for all hits or for a single offender. Additionally, POINT Tracking provides the following map tools for point analysis:

- Goto address – locates an address on the map
- Measure distance – measures the distance in feet from one point to another
- Reverse Geocode – provides a street address for a map location
- Point Trail Length – users can choose how long of a trail they want to see on the map
- Points of Interest – locations specified by agency preference; toggles on/off

Department personnel must be able to use the application to create, edit, and apply inclusion zones (areas in which the offender must be) and exclusion zones (areas in which offenders are not permitted to be). Zones are to be able to be “free-formed” if necessary, and, if created through a ready to use feature in the program, have a radius that is equidistant from the center of the protected area.

Inclusion Zones

Inclusion zones are for retention—home or work, for example. Using our built-in tool, the zone radius is equidistant from the center of the zone.

Exclusion Zones

Exclusion zones are for prohibiting entry—schools, for example—and with the tool, the zone radius is equidistant from the center of the zone.

Free Form Zones

All zones can be created in either standard shapes or free-form shapes that allow the user to draw an exact outline of the perimeter of irregularly shaped geographic areas. The software places a marker at the beginning and end of each perimeter segment and when finished, connects the marks with line segments, filling the area with transparent color.

Zone Templates

The Zone Templates feature allows the set up of inclusion and/or exclusion zones as templates that can later be applied to any offender profile. The templates save time in the enrollment process and offer officers the ability to create the same zones for all participants. For example, an officer may set up zone templates for all of the schools in a specific area and apply them to multiple offenders.

The software allows for users to associate schedules with zones. The software will display, notify and report: strap tamper, inclusion zone violation, exclusion zone violation, GPS tracking unit in motion with no GPS, GPS tracking unit case tamper, and battery levels/charging history as well as violation histories, and Unable-To-Connect events.

The application must enable department to find up-to-date location and monitoring information for any offender. This “location request” function must display offender location within two minutes of request unless wireless coverage is unavailable.

Download Points

Our System includes the capability to “ping” the device at any time, which places a location request, prompting the device to download its points. This occurs immediately—well within two minutes of request when wireless communication is available. This is how it works:

1. Open the offender’s profile and click on “Map Points.”
2. Select “Download Points”
3. Choose “last” (the last recorded point) or “past” (date and time driven)—select the date and time range to map. *Wham!* The point(s) will be mapped.

The application must display the physical location of the offender on an interactive map containing recognizable state, county, municipality, and street names.

EM Manager provides three-dimensional mapping at no additional cost, as well as unlimited access to the most up-to-date interactive maps and those containing recognizable state, county, municipality, and street names. Our maps support latitude and longitude and with state of the art GIS mapping from Bing Maps, users can choose to view, save, and print zones and points in any or all of three views:

- ✓ **Road View** - renders a two-dimensional line drawing, often referred to as a "map" view that provides labels for streets and roads, highways, counties, parks, and reserves, buildings, bodies of water, etc.
- ✓ **Aerial View** - renders a three-dimensional Blimp or satellite view of the earth and is also "zoom-able."
- ✓ **Bird's Eye View** - renders a ground level photographic or camera's view in 360-degree panorama. This is also a three-dimensional view and using the arrows, users change the perspective of a location.

The application must display every GPS point recorded by field units. As an example, if the tracking unit records six GPS points per minute, the application must display all six points on the tracking map rather than omitting some of the points.

Precise Tracking—All GPS Points Displayed

EM Manager displays every GPS point recorded. Our system provides electronic tracking and monitoring of a person's location and in conjunction with this functionality, our software provides near real-time visual mapping of all points collected at any date and time. As an option, users can choose to how long of a trail of points they want to see on a map. Inclusion and exclusion zone data is stored onboard the device, which continually verifies its GPS position. Therefore, the tracking device will generate a zone violation notification (with name of zone) immediately upon violation a zone rule. At that moment, the device immediately begins recording GPS points every 15 seconds for the duration of the zone violation. EM Manager will display the following information from every point: offender name, violation status, date and time, speed, compass orientation, latitude and longitude, and GPS accuracy. Maps with zones are printable from the screen. The software has the capability of zooming in to a macro view of the exact location or zooming out as far as the entire globe, with multiple degrees of magnification in between.

The application must allow department personnel, when viewing GPS tracking maps, to "rewind" and "fast forward" through the GPS tracking points.

Our maps are interactive and users can choose how they prefer the point information to be displayed. GPS Points are quickly mapped and can be played like a movie, with zoom, fast-forward and rewind, as well as set to stop on violation. For any period of time for which there was no GPS on an offender, the last known point is displayed in a square point on the map to distinguish it from the others and call attention to it.

Points for up to 20 offenders can be mapped at one time and the software will assign a different color to each offender's points. For the user's convenience, Up to seven days of points can be loaded at one time and the user can move through the caseload one offender at a time simply by clicking "Next."

Points can be viewed by caseload for one day, for a full week, or for a group of days in a month. Additionally, filters can be selected to screen out points that are outside a certain area, to only display points in violation, and to display those within minimum or maximum speed thresholds.

The system captures, records, and displays the offender's speed and heading on the map with each GPS point. The application uses "Reverse Geocode" and is available for all maps to allow the department's officers to easily determine the approximate address of any tracking point.

Training

Vendor must provide a minimum of at least one and up to four initial group training sessions for staff members concerning the operation and installation of the monitoring equipment and systems specified under this contract. This training will take place in a location specified by the department. The training will include written instructions concerning use of the monitoring system and equipment.

3M will be glad to provide at least one and up to four Initial group training sessions for staff members concerning the operation and installation of the monitoring equipment and systems specified under this contract. We train staff on-site in the location specified by the department. Our training will include written documentation and instructions concerning use of the monitoring system and all contracted equipment. We provide initial Basic Training to all agency-designated personnel in one- to two-day onsite training classes, depending on the department's needs.

The Vendor will provide additional training as needed, when requested by the department. The department will limit such additional training sessions to those situations where the training is required to properly implement and operate the monitoring program.

Follow-up sessions will be provided annually or as needed by the agency. The account manager we provide for Kane County—Greg Macon, lives nearby and will be available by appointment, as needed for training. The bottom line is that the length and schedule of training is designed to meet our client's needs. Training includes the use of whichever tracking device the agency utilizes as well as all associated equipment, software, and services. We work with agency staff to schedule all training sessions at times workable for the agency.

Webinars

In addition to delivering traditional on-site classroom training, we also employ webinar technologies for ongoing training. Utilizing our service provider, account managers use webinars to introduce new functionalities of our system, conduct review training, deliver updated training, or provide remedial assistance. In this forum, we can share updates, stream video, review previous trainings, and field questions, all in short time, without needing to interrupt operations by drawing personnel into trainings during scheduled work times. Webinar training can be delivered to one person or to multiple people simultaneously, and can either be conducted on an ad hoc basis, or scheduled for a later date. It does not require any equipment beyond a computer with an Internet connection and a phone.

The Vendor must provide written instructions/users guides enabling department personnel to install and service all equipment provided

3M Electronic Monitoring supplies all materials and equipment needed for training and provides it to agency personnel during the training sessions. We grant our clients unlimited copying rights for internal use of our training documents and additional training manuals will be provided upon request. Training manuals are also available to the agency in electronic format at no cost and we encourage this strategy as part of our effort to stay green. Additionally, our software contains a comprehensive online Help section that covers hardware, software, and reporting.

On-Going Support

The Vendor shall appoint a project manager who will also act as contact and liaison for the department. The project manager will schedule on-site visits with the department to review monitoring performance and to make any needed changes.

The Account Manager to support the County of Kane is Greg Macon. The Account Manager will schedule on-site visits with the Department, acting as the Department's primary contact and liaison with Contractor. The Account Manager will meet with the Department to review monitoring performance, to assist with inventory management as needed and to make any needed changes. He is the Department's contact for ordering additional equipment, for ordering automatic reports, as a first line of support and any special requests.

Vendor support personnel must be available via toll-free telephone number to the department at all times. Support personnel must be awake, rather than on-call, and must not be subcontracted. Vendor support personnel shall have the ability to complete offender enrollments, adjust monitoring parameters, complete offender removals and assist department staff with technical problems for all monitoring systems via telephone.

3M Electronic Monitoring delivers industry-leading support by utilizing a unique approach to providing goods and services to our customers. We are highly service oriented and in our experience, our customers benefit from the skills and availability of multiple account managers. Therefore, our multi-tiered customer support structure looks like this:

1. A specific account manager is assigned to service every 3M contract, and
2. A regional team of highly trained and experienced account managers, each led by a regional manager is assigned to provide backup support to the assigned account manager, and
3. Our 24-hour professional Monitoring Center is available around the clock 365 days per year and trained to support our customers with every aspect of our products and services.

Professional Account Manager

The first level of support we will provide Kane County is a competent account manager to provide support in the areas of equipment operation, monitoring, software support, system implementation, staff training, troubleshooting, and managing equipment inventory. The account manager is your resources for special requests, technical assistance on new programs, and for help developing new protocols. Account managers also coordinate additional training for new products or software and are available to handle expert witness and subpoena responses. They handle larger RMA tickets and equipment orders for monitoring devices and consumables. Often, our account managers make very effective suggestions for how programs can reduce the number of alarms. We have assigned 3M employee, Greg Macon, to the County of Kane's program. Greg is one of our experienced account managers and lives within an easy 30-minute drive of Kane County Court Services. During business hours, Court Services staff will be able to contact Greg through the directory provided on our toll-free phone number, by his mobile phone, or by email. Greg is more than able to assist the department's staff with completing offender enrollments, adjusting monitoring parameters, completing offender removals and assisting with technical problems for all monitoring systems via telephone.

Western Account Management Team

The second level of support we will provide Kane County is the account management services of our Western Account Management Team for implementation, training and support of its Electronic Monitoring Program. This Team is led by Autumn Ledbetter, Western Regional Manager, who has more than six years of experience as an account manager, providing direct officer support and training for state and county programs in four states. Currently, she supervises five account managers and assists with the implementation of new contracts and office trainings throughout the region. Her team includes: David Desrosiers, Senior Account Manager; Nicole Martinez, Account Manager;

Matthew Smith, Account Manager; Greg Macon, Account Manager; and Christopher Poole, Account Manager. Kane County will be given a specific email address that reaches all team members so that somebody will always be available to answer questions and provide any needed assistance. Included on that email distribution list is Lisa Zuransky, our Manager of Customer Support Operations.
Help Desk Support

The third level of support we will provide Kane County is our always-awake Monitoring Center; staffed and available toll free at any time of the day or night, 365 days per year. Via secure, toll-free lines, our extensively trained and experienced Monitoring Center staff provides customer support and troubleshooting to officers around the clock—24 hours per day and 7 days per week—365 days per year. This is the support resource for our clients after business hours if the assigned account manager is not available. Our MC personnel are well-trained to quickly and accurately answer any questions regarding offender activity, software, equipment, mapping, zones, rules, notification, and more. Kane County officers can telephone our Monitoring Center toll-free and with the appropriate user ID and security code, a customer service agent will be happy to assist with any aspect of our equipment or software in an accurate and efficient manner. The average number of staff in the Monitoring Center per shift is nine (9) on the day shift and the evening shift and four (4) on the midnight shift; the mean average for all shifts is seven (7). Every shift includes a bilingual agent and a shift supervisor.
3M will respond to Kane County point validation inquiry in a reasonable response timeframe, ideally within 12 – 24 hours of inquiry.

Staffing of vendor support personnel shall be maintained at adequate levels to ensure immediate responses to field officer inquiries and established offender violation protocols.

The Contractor will track Monitoring Center statistics closely and adjust staffing levels to meet the County's needs. The majority of incoming calls will be answered with zero on-hold time. The average hold time for calls that go on hold is approximately 30 seconds. GPS points can be validated by the County at any time by contacting the Account Manager. Technical Services will validate points and will write a letter to provide a record of the validation.

Maintenance and Support

The Vendor shall provide maintenance of the equipment for the length of the contract at no additional cost. The Vendor shall maintain the equipment and spares in good operating condition and arrange for repair or replacement of equipment within 24-36 hours.

One of the advantages of leasing our products is that as the original equipment manufacturer, we need to maintain our products in tip-top shape. We keep parts, batteries, straps, and installation kits available for our equipment. Furthermore, our daily rate includes routine maintenance and repair on all leased equipment for the duration of the contract ; deliberate damage excluded.

Inventory

The Vendor shall provide additional equipment for the department's inventory as needed; additional inventory must arrive within 24-36 hours of a request by the department.

We are pleased to provide Kane County with additional equipment for the department's inventory as needed. Equipment orders placed by noon on business days are shipped out the same day via expedited shipping; orders received after noon ship the next day. Typically, we provide UPS Ground Shipping; however, we understand Kane's need and will provide 24-36 hour shipping. Additionally, to ensure that Court Services is always well provisioned, we will also provide a 20% spare equipment shelf inventory at no additional charge.

Central Host System

The central host system, the repository of all monitoring data received from field units, must not be located at the department's facility and must be the responsibility of the vendor.

Surveillance Data Center

The Surveillance Data Center is where all device tracking and offender data is downloaded housed and stored on 3M system servers. It is a refrigerated vault of servers and security systems that run continuously, accessed only by the software and IT engineers who maintain the machines, connections and backup systems. There are multiple redundancies in place to ensure the System and Monitoring Center are available 24 x 7 x 365.

Communications

The primary service provider for Data Center communication is Verizon Wireless, one of the most reliable facilities-based networks in the world. In addition, we have multiple backup providers at both our primary and backup facilities, including Bell Atlantic, AT&T, Bright House Cable (VoIP) and an additional layer of redundancy provided by our AT&T and T-Mobile wireless phones in the event that all landlines go down. Our redundant phone and data line connections are multiple paths from separate telecom providers with the primary service being dual-fiber connections.

Computer Management System

The system uses three redundant, secure, load-sharing facilities. Three Data Centers operate 24 hours per day and 365 days per year. Periodic maintenance is performed on the backup system and then hot-swapped into production with minimal down-time to the customer. All Data Center facilities have at least two levels of backup power (UPS, diesel generators, and/or multiple power feeds) and multiple Internet service providers. The investment in, and implementation of, these technologies and practices has enabled us to operate with 99.95% documented availability over the past seven years. In the event a Data Center goes off line, the other load sharing Data Center continues to provide service.

Real-Time Updates

The database is updated in real time (no batching) to ensure that all data is accurate and timely when viewed and/or downloaded by authorized personnel. Each of the reports can be queried, sorted, or filtered by any field contained in the report or by data parameters, as applicable. Reports can be generated by entering date/time ranges for requested GPS offender data.

Data Storage

All tracking and crime scene correlation information is stored permanently, giving our customers permanent access to their offender tracking information via our EM Manager software or exported data file. Our primary SDC in Odessa, FL, contains all of the data storage devices, servers, computers, modems, and equipment necessary to simultaneously track and monitor 100,000 offenders and can easily be expanded as needed. The Center is ventilated and equipped with a hot redundancy system and dual controllers.

The central host system shall be protected from a system failure and the loss of data by the presence of a real-time redundant data protection system. All host system components must be 100% redundant. Specifically, the system shall be in constant contact with a redundant system. Both systems shall be configured to maintain the same data so that in the event of a system failure, the redundant system will seamlessly continue all monitoring functions. The vendor must also maintain a third-tier failsafe system, at least 10 miles away from primary and secondary systems, which can be used in the case of primary and secondary system failure. Vendor must describe steps taken and equipment used to provide redundancy and ensure data preservation.

Redundancy

Our computer management system is both locally and geographically redundant, with real-time redundant servers located at our primary Data Center in Odessa, Florida; Peak 10 in Jacksonville, Florida—200 miles away; and St. Paul, Minnesota (an even superior IT Center)—1,300 miles away. Our central monitoring computer uses three redundant, secure, load-sharing facilities and all Data Centers operate 24 hours per day and 365 days per year. Periodic maintenance is performed on the backup system and then "hot-swapped" into production with no down-time to the customer. All Data Center facilities have at least two levels of backup power (UPS, diesel generators, and/or multiple power feeds) and multiple Internet service providers. The investment in, and implementation of, these technologies and practices has enabled us to operate with 99.95% documented availability over the past seven years. This design incorporates 100% local redundancy and 100% geographic redundancy located more than 500 miles away.

Our Data Center utilizes four Dell PowerEdge servers, 2 x 8 core Intel® Xeon® L7555 1.86 GHz processors that are hyper-threaded with 128 G RAM. All servers write tracking data to four Raid 10 arrays with 38 drives in each array, providing four levels of high availability redundancy. These are all high speed, high capacity SCSI drives, representing terabytes of data storage. The hardware framework is network-based and provides almost unlimited scalability. The server supports all hardware, software and peripheral requirements, with sufficient ports for full functionality. We have two backup environments—"high availability" (HA) and "disaster recovery" (DR) for a total cluster of 27 primary and 28 HA backup servers that provide the processing power for our system. Switchover from a primary server to HA backup server after a failure is automatic and immediate, with automatic notification(s) sent to the Monitoring Center and to the IT manager. In a disaster scenario, full switchover to our backup facility takes approximately 10 minutes. We know this, because we test it twice per year.

Backups

Transaction log backups are performed every 5 minutes and full backups are performed monthly and saved to disk. All backups are then further copied to a backup server and then to a tape for additional redundancy. We take the extra precaution of this many levels of redundancy because computers break and systems can malfunction. Since agency data is too important to take any risks, we have a comprehensive written Business Continuity and Disaster Recovery Plan that is reviewed and updated annually.

Security

The 3M Electronic Monitoring physical facility, equipment, data transmissions, and data storage are on a secure site with limited access. The facility itself is equipped with an alarm and is monitored by a security company. It is also equipped with an operational fire protection system that has a tamper-proof dedicated circuit with no exposure to any person or thing that could alter or damage the line. Our security procedures and protocols are certified by a third-party source. Additionally, 3M ensures that our solution is highly secure across many dynamics at many levels:

Building Security

- Located on a secure site with limited access
- Video surveillance of premises and entrances
- Front door has physical lock
- Lobby door has 800-pound magnetic door lock secured with separate-zone RFID card reader
- Electronic card key limited access with card key plus passcode required after business hours
- Must wear ID badges in the building at all times
- Building is alarmed and monitored by a security company
- Equipped with operational fire protection system and tamper-proof dedicated circuit
- Security protocols certified by a third-party source

Surveillance Data Center Security

- Located in the interior of our corporate headquarters building on our secure site with limited access
- Electronic card key requires RFID plus 4+ digit access code
- *The Data Center door is a fireproof steel door with a smash-proof mesh glass window*

- Access limited to the assigned engineer and vice president of software development
- Individual server racks are physically locked front and rear
- Server front bezels are physically locked
- Backup tape media is stored in a locking safe.
- Center's one small window has 1.5-inch thick bullet-proof glass

Monitoring Center

- Located in the interior of our corporate headquarters building on our secure site
- Access limited to assigned staff and the engineers who maintain the equipment
- Callers are immediately required to provide an authorized ID and passcode in order to speak to a Monitoring Center agent

Access to Data

- Server system is built to a secure "N-tier" design
- Access to databases restricted to the database administrator and the VP of software development
- Access to the web-based system requires a login and password
- Secure interface via 256-bit SSL encryption
- Logins time out after set idle time
- All transmissions between devices and servers encrypted
- Domain-level authentication required for internal staff and application-level authentication required to access applications
- Remote internal users connect through secure VPN client, as well as domain-level and application-level authentication
- End users access through encrypted SSL services proxy in conjunction with application-level authentication
- Administrative access restricted to IT staff

Access by Personnel

Both the Monitoring Center and Surveillance Data Center operate with multiple security protocols and redundancies, including: ISO standards, security policies and procedures, application security, transmission encryption, and controlled physical access. Access controls and modification forms are used for outside client access to Client Enrollment. Employee access is immediately revoked upon termination. Internal staff has domain-level authentication as well as application-level authentication. Additionally, a client-authenticated and secure VPN is utilized for remote internal users, as well as domain-level and application-level authentication; plus—

- Mandatory pre-employment drug screening required
- Mandatory pre-employment criminal background checks required, and
- Background checks updated annually

Data Protection

Our web-based software interface is completely secure at all times, preventing unauthorized individuals from accessing any information. EM Manager transmits data through an encrypted Internet connection using Secure Socket Layers (SSL)—the de-facto standard for data protection. We use 256-bit SSL encryption, which is absolutely unbreakable. As an additional security feature, a login times-out after thirty minutes of idle time, but if so, returns the user right back to his/her last location immediately upon logging in again. Additional data protection protocols include:

- Access levels
- Redundancy
- Logins are recorded
- Frequent and routine Backups
- Data secured off-site monthly, quarterly, and annually

All Data Center facilities have at least two levels of backup power and multiple Internet service providers. The Data Center employs 96 phone lines, an OC12 fiber connection and eight T1 Trunks for data and backup voice communications. All transmissions between devices and servers are encrypted.

Testing

The Vendor must allow the department to test the equipment and system for *at least 48 hours* to determine the reliability of the tracking system and the compliance with all requirements set forth above. The vendor must instruct a few employees of the department on the mechanics of installing the equipment and on how to access and operate the tracking system during the testing period. Reliability of the tracking in various locations and under various conditions will be a major factor in the awarding of the bid.

3M is currently Kane County's contracted vendor for its GPS System and Monitoring Services and we hope to be awarded the new Contract. We would be pleased to cooperate with Court Services regarding a test of any of our equipment for the reliability of our tracking system and our compliance with all requirements set forth in this RFP.

Section II: Proposal Requirements


1. Methodology used to track offender's location, including equipment (i.e. one piece; two piece; auxiliary equipment).

The 1 Piece (WMTD) is an autonomous GPS device, capable of four supervision levels—Active, Passive, RF, (and Alert, of course). The unit contains a GPS receiver that gives it the capability to calculate its exact position using data transmitted by the U.S. Government's Global Positioning System satellites to establish and track an offender's location. It collects and records one GPS point every 60 seconds in compliance and one GPS point every fifteen seconds when in zone violation. Designed to be as small and discrete as possible, with safety and convenience of installation as a high priority, it also uses the identical strap and attachment mechanism as our Bracelets.

Key features of the 1 Piece (WMTD):

- It is lightweight and easy to secure on the ankle
- Dual tamper detections—housing and strap
- If desired by the agency, authorized users can change supervision levels on the fly right in the software, even without seeing or touching the device
- High sensitivity, low-power receiver
- Onboard processing—stores up to 99 rules for zones and schedules right in the device itself; rules are updated at each call-in
- Minimum 40-hour battery on a full charge
- Nonvolatile memory stores data permanently even if the battery goes dead
- Multiple modes of communication with offender with programmable alert acknowledgement
- Wireless GSM/GPRS modem
- Latest chip set to minimize GPS errors and weak points.
- Using the Internet-based software, device activation is a quick three-step process that takes less than five minutes
- Works with optional RF Beacon in the residence

Physical Characteristics

Dimensions:	2.92W x 4.38H x 1.89D inches	
Weight:	6.0 ounces	
FCC ID:	NC3WMTD3418	
Battery Life:	Minimum 40 hours	
Memory:	67,000 Events = >1 month	

Alert Notifications

3M's 1 Piece (WMTD) records and downloads all of the following event information with timestamp and duration. It is capable of immediately generating alerts with notifications for the following six events and after those six events:

1. STRAP TAMPER

The bracelet strap has been cut or removed. The device's strap utilizes an embedded fiber optic light pipe to complete an encoded circuit around the offender's ankle. The fiber optic circuit provides tamper detection that has proven to be very accurate in reporting tamper events. Any disruption in the circuit triggers an immediate strap tamper alarm with notification according to agency protocol.

2. DEVICE TAMPER

The device itself has been compromised. The device contains an internal light sensor and any breach of the housing will trigger an instantaneous tamper alarm with notifications according to agency protocol.

3. LOW BATTERY

The device battery is low and needs to be charged. The 1 Piece (WMTD) is always monitoring and reporting its battery status with every GPS point; indicating it to the offender via LED on the device and to the officer via an icon on the dashboard in the software. The low battery notification is automatic. The offender is notified via a flashing red LED and three bursts from the vibration motor to charge the battery one hour before the device will have to shut down. If the battery is not charging 30 minutes later, an alarm is generated, notifying the offender via the device and the officer (optional) according to selected protocols. The software dashboard reflects battery voltage, charging activity, and shutdown status at all times.

4. **MOTION-NO-GPS**

The device is in motion in the absence of GPS. The absence of GPS in and of itself is not a cause for concern because it is not unusual for GPS to be unavailable. The offender could be in a known situation, such as indoors under a roof, in which case, the last point is clearly distinguished on the maps and GPS will be re-obtained when the subject comes out of the building. The real cause for concern is when there is motion in the absence of GPS; meaning the offender is moving with no GPS points available. The 1 piece (WMTD) records both; it records and indicates the no GPS status in the software and also generates an alert and provides notification when the device has accumulated 20 minutes of motion within a 60-minute period without receiving a signal from the GPS satellites. The officer is immediately notified of *Motion-No-GPS* according to selected protocols and notification to the participant is optional. If selected, it is delivered via the device's LED and vibration motor.

5. **UNABLE-TO-CONNECT**

The device has not called the system as scheduled. When a device does not contact our system at the prescribed time, the system notices the missed call-in and records an *Unable-To-Connect* event with timestamp, duration, and all related information.

Additionally, our EM manager software will distinguish the last GPS point downloaded so officers can easily see the last known location. Keep in mind that as long as the battery has power, the device is still tracking and recording data. As soon as communication is restored, the device will call our server to download all tracking data to the system; violations will be processed, notifications generated, and all data can be viewed in our web-based software.

6. ZONE VIOLATION

The rule of a specified geographic inclusion or exclusion zone has been violated. 3M Electronic Monitoring provides automatic and instantaneous notification for all inclusion and exclusion zone violations according to agency protocol. Notifications include the zone name and officers can choose whether or not each offender is notified, zone by zone.

Features

ONBOARD PROCESSING PROVIDES AUTONOMOUS GPS

The 1 Piece (WMTD) is an autonomous GPS device. The unit contains a GPS receiver that gives it the capability of autonomously calculating its exact position using data transmitted by the U.S. Government's Global Positioning System satellites to establish and track an offender's location. Unlike many other GPS devices in the market, the 1 Piece (WMTD) has onboard processing, which means that all rules (inclusion zones, exclusion zones, schedules, grace periods, etc.) are stored right in the device. This allows autonomous tracking independent of the availability of a wireless signal and communication with the server. Our system is very robust and the fact is that with our onboard intelligence, the device is not dependent on server contact for tracking in the way that many other devices are. Upon detecting a violation, the device itself goes into alarm and does not wait for the next scheduled call to the Data Center, but instantly initiates contact, downloading all tracking data.

SAFETY STANDARDS, GRANTS, AND CERTIFICATIONS

All proposed equipment is in compliance with all mandated safety standards and have the necessary FCC Grants and UL Certification. Body-worn devices are manufactured using hypoallergenic material for the housing and the strap and there are no sharp edges that may cause injury. Ankle-worn devices are designed to be torn away when subjected to a normal force approximately 40Kgs. This has been tested by an independent laboratory and we will provide a certified test report upon request. Additionally, EMTs may cut the device away using standard sheers (these actions will of course generate a strap alert). All proposed units are equipped with internal surge protection to guard against potential damage from power surges through the phone and power lines.

The device is affixed to the offender with a hypoallergenic strap that has tamper detection.

BATTERY LIFE

The Department needs a tracking device that has strong enough battery power to last the day, allowing it to be charged on a regular schedule. The 1 Piece (WMTD) battery will provide at least forty (40) hours of service on a full charge. All of the internal batteries in 3M's body-worn transmitter devices have a minimum operation of one year and are rechargeable for no less than 365 recharge cycles.

3M Electronic Monitoring does not require officers to replace batteries in the field. We carefully monitor battery condition and will notify the supervising officer of any batteries that do not provide sufficient life when properly charged so that those units can be returned through the RMA process. Our batteries are good for at least 365 charge cycles, but if a battery should need to be replaced, the officer simply cuts the strap, replaces the device from shelf stock, and returns the unit to 3M Electronic Monitoring in accordance with the RMA process.

BATTERY STATUS INDICATOR

Speaking of batteries, what good is a battery charger without a way to know the battery's status? Our device not only indicates the battery's status with an LED light on the device; it also provides continuous indication of the battery status for every participant right on the dashboard of the software. Dashboard icons on the mapping screen display the current status of the device, including: Charging, At Rest, Position Unknown, No GPS, Battery Voltage, Shutdown, Violation, and GPS Accuracy. Several of these icons are illustrated at right (*Figure 6*). The 1 Piece (WMTD) automatically notifies participants of a low battery, as well as when the battery is recharged. When the battery is within one hour of depletion, the device will deliver three short bursts from the vibration motor and the power LED will flash red. The device continues to deliver one burst from the vibration motor once every 10 minutes until it is put on the charger. When the battery is within 30 minutes of depletion, notification is sent to the officer (optional). When the battery is fully recharged, the participant is notified with a green light to the power LED. Whenever the battery is being charged, it is reported to the officer with an icon displayed on the dashboard of the mapping screen and whenever the battery is shutdown, it is reported to the officer with an icon on the dashboard. Remember that the officer can choose to receive notification of impending battery depletion 30 minutes before the device reaches shutdown.

HOUSING

This tamper resistant device is housed in a rugged and hypoallergenic Lexan® case that is permanently sealed using an ultrasonic welding process. Its design creates an extremely durable case that is waterproof to a depth of 66 feet; shock, and vibration resistant to a laboratory

standard that subjects the unit to rigorous testing of both plastic and electronics. The unit is required not only to survive, but to function normally throughout the test. The device's operating temperature range and stored temperature range are -13°F to 122°F and -25.6°F to 149°F, respectively, with an operating humidity range of 20% to 80%, non-condensing

STRAP

The straps we use to attach our 1-Piece (WMTD) device to the offender are disposable, field replaceable and hypoallergenic Santoprene™. They are fabricated in rolls so that individual straps can be cut to any length. Our standard kits are equipped with 11-inch straps that are sized to the youth's leg and then cut to the exact length required using scissors or 3M-provided cutters. We also provide 15-inch straps for those larger ankles and for the rare but not unheard of situation where a larger size strap is needed, we will provide one. The straps contain a fiber optic light pipe that is embedded within the strap and completes an encoded IR circuit around the youth's ankle. The fiber optic circuit provides tamper detection. In the event that an offender cuts, severs or otherwise compromises the integrity of the strap, an alarm is generated and notification is sent to the designated officer.

HIGH SENSITIVITY, LOW-POWER RECEIVER

Our 1-Piece (WMTD) incorporates a low power, high sensitivity GPS receiver that has been modified to utilize proprietary firmware. The GPS receiver gives the device the capability to communicate with the U.S. Government's GPS satellites and our engineers designed and built the device to a high sensitivity on the GPS tracking function to increase accuracy and optimize tracking performance—particularly in low signal environments, such as inside an automobile or in urban canyons. The low-power receiver extends the battery life between charges.

INTERNAL DIAGNOSTICS

Even the best equipment can potentially fail and what good does it do to put potentially malfunctioning equipment on the ankle of an offender? The 1 Piece (WMTD) contains internal diagnostics that run on a constant basis. The device continually evaluates power capabilities, modem functionality, GPS receiver status, processor performance etc. Any irregularities are immediately reported to the server for processing and notification. But we go even one step further; our device has a self-test feature that can be run prior to activation in order to verify all of the following:

- ✓ The internal battery is tested to ensure an adequate charge
- ✓ The GPS unit is tested to ensure it is receiving signals
- ✓ Communications to the Central Monitoring Center via GPRS is confirmed, and
- ✓ Tamper points are verified to be normal

INTERNAL CLOCK

The device incorporate a highly accurate quartz clock and each time it calls in, its internal clock is adjusted to the server's for any millisecond offset. With highly accurate timing, it marks the exact date and time of every monitoring event. Accordingly, when the 1-Piece reports data, the file received includes the date/time of each recorded event, as well as the server's stamp of the time it was downloaded and the time of all related data transactions. This allows us to know, record, store, back up, archive, and generate reports with the exact date/time of every monitoring event (alarm), every download, every notification, and the very second each notification was received by an officer.

PRECISE TRACKING

The 1 Piece (WMTD) provides electronic tracking and monitoring of a person's presence at or absence from a specific location at specified times periods. In conjunction with this functionality, the EM Manager Software provides near real-time visual mapping of the precise location of an offender at any date and time. Inclusion and exclusion zone data is stored onboard the device, which continually verifies its GPS position. Therefore, the tracking device will generate a zone violation notification (by name of zone) immediately upon violating a zone rule. At that moment, the device immediately begins recording GPS points every 15 seconds for the duration of the zone violation. For example, in the screenshot shown, the GPS points of an offender entering an exclusion zone are shown in map view. EM Manager displays the following information for every point: offender name, violation status, date and time, speed, compass orientation, latitude and longitude, and GPS accuracy.

POWER CHARGER

A durable, easily connected power charger is included with each device and it has a 9.5-foot cord for connecting the device to a standard 110V AC wall outlet. While many devices still have a charger that utilizes the traditional plug-in AC power connection, our engineering team reinvented it. Noticing that the standard AC power connector can be easily broken by stressing the charge cord during the charge process, they designed a magnetic power cord, virtually eliminating equipment safety concerns. In the event an offender walks away from the wall outlet while charging, or another person or pet trips over the cord, the connection simply pops off and the offender is notified of the disconnect.

COMMUNICATION WITH OFFENDER

Electronic monitoring can be an effective behavior modification tool when it allows for communication with the participant. The 1 Piece (WMTD) allows for instant communication in multiple ways, providing participants with continuous indicators of battery status, GPS status, and violation status. It also provides for receipt of communication from supervising officers, as well as for participant acknowledgement of communications and alerts, all of which are recorded and stored in our system.

The device utilizes a combination of LED lights and a vibration motor to communicate with the participant. Three bursts of the vibration motor notifies of violations and the alert signal is one 10-second long vibration that the participant must acknowledge by pressing the button on the outside center of the device. The Alert signal is customizable, prompting the participant to respond according to the pre-arranged response instruction given by the supervising officer at the time of device activation; for example, "Call me within the hour."

Three LED lights indicate the following:

Battery Life = Power

- Green = normal status
- Red = battery low—charge battery
- One hour before battery depletion, the LED flashes red and the vibration motor sends notification to the offender with three short bursts. The device continued to vibrate once every 10 minutes until it is on the charger. When charged, the LED turns green.

Alert Button

GPS signal

- Green = GPS available
- Red = no GPS available

Zone Violation Status

- Green = normal status
- Red = offender is in violation—correct behavior
- When LED turns red, the vibration motor also sends a notification to the offender with three short bursts. When the violation clears (behavior corrected), the light returns to green.

2. Methodology used to notify police or probation of violations of inclusion zones (i.e. automated voice; live person voice; electronic notification; etc.).

We have many options for notifications through our automated system. The System provides immediate notification of inclusion and exclusion zones and users can select from multiple methods for receiving notifications by offender and by violation. Currently, we provide manual notification to 911 Dispatch Strap Tamper violations when in an inclusion zone and to officers if not in an inclusion zone. Officers can also elect to receive notification via the automated system, only via outbound calls to Dispatch Office, or both. As indicated in the Cost Section, we have many Monitoring Center notification service levels to choose from.

3. Methodology used to notify police or probation of violations of exclusion zones, and method used to track offender who has left violation area to aid police in offender location.

The System provides immediate notification of inclusion and exclusion zones through the automated system. Users can select their preferred method(s) of notification by offender and by violation. Currently, for every exclusion zone, we telephone a specific 911 Dispatch Center by outbound call from the Monitoring Center and Dispatch works the violation. Court Services can choose to receive notifications only via the automated system or only via outbound calls to Dispatch Office, or both.

4. Vendor definition of "real time".

By definition, all electronic monitoring occurs in "near real-time" because it is reported and mapped after it occurs even if instantaneously. If it were monitored in "real time" we would be seeing offenders where they are instead of where they just were 15 seconds or up to one minute ago.

5. Vendor's equipment that has the ability to provide tracking that ranges from near-real time to once each day (can convert from passive to active through a software interface).

Both our 1 Piece and 2 Piece GPS devices have the ability to provide tracking at multiple supervision levels (active, passive, hybrid) and can convert from passive to active on the fly right from a drop-down menu in the software interface.

6. Methodology for direct victim notification of breach of exclusion zone.

The user has the ability to enter any contact person's information in the Contacts list for an offender's notifications. Currently, users enter a victim's information as a contact with cell phone number and select text notifications for exclusion zone violations. The victim receives a text notification if the designated Exclusion Zone is violated.

7. Mapping software utilized shall display offender's location information in a sequence event and/or at a specific date and time; and display inclusion and exclusionary zones that must be printable from the screen.

EM Manager Software displays the offender's precise location information in a sequenced event and/or at a specific date and time. Inclusion and exclusion zones are displayed and are printable from the screen.

8. Complete cost analysis, broken down by component costs, including equipment rental (offender and victim); 24/7 monitoring; less than 24/7 monitoring and fee scale for various scenarios, (i.e. Court Services provides hookup, tamper response, and unhook; vendor provides hookup, tamper response, and unhook); cost breakdown for additional services available; replacement costs for equipment damaged or lost, including bracelets and transmitters.

One of the benefits of doing business with 3M is that we provide one price and everything is included. There are no surprise charges for service, support, training, downloading points, or Tower-Based Tracking (impaired location technology). Our price offer to Kane County Court Services includes all of the following:

- Equipment Pricing: Our price for tracking and monitoring equipment is expressed as a daily rate per activated device (active or passive).
- Maintenance and Repair: Our daily rate includes routine maintenance and repair on all leased equipment for the duration of the Contract, with the exclusion of deliberate damage. Please find our Leased Equipment Warranty included as *Attachment B*. Additionally, 3M offers Kane County a 10% allowance on all lost, damaged, and stolen (LDS) equipment, as well as deep discounts on our standard replacement costs.
- Spare Inventory: We will also provide Kane County with a 20% of spare shelf equipment inventory at no additional charge.
- Shipping: We understand Kane County's expressed need for 24-36 hour shipping and we will provide expedited shipping as needed to provide equipment within that timeframe. Orders received by noon will be shipped the same day. Orders received after noon will be shipped next day.
- Consumables: We also offer to provide all consumable items, such as batteries, Bracelet straps, pin trays, and tamper plugs at no additional cost, along with two pairs of cutters for Bracelet straps.
- Service and Support: Again, one of the major benefits of contracting with 3M is that our daily rate for leased equipment includes all training, technical support, account management services, and 24-hour Help Desk support for all of our products and services, around the clock 365 days per year.

Monitoring Center Services

Level 1 Includes—

- Inbound Customer Support to Officers/Customers (incoming calls requesting help and Drders/RMA support).
- Support to officers/agents/customers through our Monitoring Center and Technical Support through our Technical Services Dept with no outbound calls included.
- *There is no additional charge for Service Level 1.*

Level 2 Includes—

- Inbound Customer Support
- Outbound calls to Dispatch/officers to alert them of violations
- Case management entries regarding these calls
- Terms and protocols will be defined by 3M and Kane County.

UNIT TYPE (KIT)	CONFIGURATION (ACTIVE/PASSIVE)	QTY	DAILY PRICE PER ACTIVE UNIT	
GPS TRACKING EQUIPMENT				
1 Piece GPS	Active	0-100	\$	3.80
1 Piece GPS	Passive	0-100	\$	3.75
Beacon	RF	0-100	\$	0.50
2 Piece GPS without voice*	Active	0-100	\$	4.50
2 Piece GPS without voice*	Passive	0-100	\$	4.40
* Add voice	Active and Passive	0-100	\$	0.75
Optional Base Unit 2000	Active and Passive	0-100	\$	0.50
Data Charger	N/A	0-100	\$	0.50
REPLACEMENT COST (LDS)		STD REPLACEMENT COST		KANE CTY COST
1 Piece GPS	\$	800.00	\$	600.00
2 Piece GPS (XT Unit only)	\$	1,000.00	\$	750.00
Bracelet Transmitter	\$	100.00	\$	100.00
Wall Charger	\$	30.00	\$	30.00
Optional Base Unit 2000	\$	350.00	\$	300.00
Beacon	\$	300.00	\$	150.00
Multi-Unit Charger	\$	250.00	\$	200.00
Data Charger	\$	300.00	\$	200.00
MONITORING CENTER SERVICES				PER UNIT PER DAY
Service Level 1				Included
Service Level 2			\$	0.50
Service Level 3			\$	1.00

9. Vendor shall maintain a call-center twenty-four (24) hours a day, three hundred sixty-five (365) days a year, and provide constant communication links with immediate notification of alarms.

Our professional Monitoring Center is staffed with trained customer service agents and a supervisor on every shift 24 hours per day and 365 days per year. We provide various levels of communications, immediate notifications, outbound calling, and other monitoring services around-the-clock.

10. Maximum battery life and method of recharging.

The 1 Piece has a battery life of at least 40 hours on a full charge. Included is a power charger for recharging through an AC power outlet that accommodates 110V and 220V.

11. Maximum number of shelf units allowed and whether there is a cost associated with shelved units.

We offer Kane County a 20% spare equipment shelf inventory at no charge.

12. Turnaround time for equipment orders.

The turnaround time for equipment orders is shipment the same day for orders received by noon and shipment the following day for orders received after noon. We agree to meet Kane County's need for 24-36 hour equipment turnaround even if expedited shipping is required.

GPS SUPERVISION PARAMETERS

The frequency of our point collection is not limited by the wireless carrier and is not dependent upon the availability or strength of the wireless signal. The system will collect and record location data even when there is no wireless signal—an important capability of the 3M System—and there is never an additional charge for 15 second points or Tower-Based Tracking points (TBT). TBT points are collected with every point, requiring no officer action to activate like with other systems.

GPS Accuracy

According to the U.S. Government, the GPS Standard Positioning Service performance standard is 95% accurate to within 7.8 meters. This is a function of the technology and not the vendor; any vendor that claims to exceed this accuracy standard is mistaken. However, the government also stipulates that the actual accuracy GPS users attain also depends upon factors outside the government's control, including atmospheric effects and trees. For this reason, 3M Electronic Monitoring typically makes the more conservative claim that our GPS is 90% accurate to within 10 meters. However, within the GPS Standard Positioning Service's performance standard, 3M Electronic Monitoring certainly strives to maintain the highest degree of GPS accuracy available in the industry.

Our devices are equipped with the latest GPS technology, including firmware that can detect and filter "multipath" satellite signals—the cause of nearly all thrown points. The way this works is that devices accept and processes only "perfect" GPS solutions. Our "perfect solution" algorithm uses a number of values extracted from a GPS solution to establish a Confidence Level (CL) and a Total Horizontal Position Error (THPE). Only the highest CL is acceptable and basically requires the GPS solution to contain a number of markers, which combined, indicate a "solid lock." A solution indicating estimation, dead reckoning or any unknown may indicate a thrown point and will fail the CL test. THPE is also computed using a number of fields in the GPS solution and if the THPE is excessive, the point will be rejected.

Flexible Monitoring Parameters

Our system is highly flexible and the monitoring parameters can be adjusted to meet the needs of our customers. Following are the standard supervision parameters that are most requested and we typically provide:

Active GPS

3M's overall standard active supervision parameters are as follows:

- Continuously samples GPS
- Stores one GPS point every 60 seconds when the device is compliant
- Stores one GPS point every 15 seconds when the device is in zone violation
- Downloads all tracking information to our Data Center every 60 minutes
- Downloads all tracking data the instant a device goes into violation status
 - Provides immediate notification of violation to the offender (selectable)
 - Provides immediate notification of violation clear (if desired)

Passive GPS

3M's standard passive supervision parameters are as follows:

- Continuously samples GPS
- Stores one GPS point every 60 seconds when the device is compliant
- Stores one GPS point every 15 seconds when the device is in zone violation
- Downloads all tracking information to our Data Center every 6 hours
- Notification of all violations emailed every morning in a Daily Violation Summary Report
 - Provides notification to offenders (selectable)

Supplemental Tracking Technologies

While GPS is still the best tracking technology in offender monitoring by far, it is occasionally unavailable—especially indoors—and there have been accounts of attempted GPS spoofing. For these reasons, we build three tracking technologies into our devices; GPS as the primary, along with the following two supplemental technologies:

TOWER-BASED TRACKING—SECONDARY TRACKING

The Tower-Based Tracking (TBT) capability supplements the primary tracking capability by providing an alternate and automatic means of location tracking when the GPS signal is masked or obscured. Using TBT, the device calculates its geographic position from the signal provided by one or more cell towers in its proximity. While not as precise as GPS, TBT provides valuable location information about the whereabouts and behavior of an offender even in the absence of GPS. Unlike the Trilateration capability offered by some, our TBT is always available and **REQUIRES NO MANUAL INTERVENTION**. It is provided with no limitations and there is never an additional charge for it.

THREE-AXIS MOTION SENSOR—TERTIARY MONITORING

In addition to primary and secondary tracking capabilities, our devices feature a third and supplemental tracking technology to provide corrections officers with information pertaining to the behavior of offenders. Often called anti-spoofing, our device contains a built in three-axis accelerometer that operates independently of any other infrastructure and, therefore, is always on and working. Coded into the device is our proprietary logic which provides an accurate alert of any attempts to spoof the device and move around undetected. Even if both the primary and secondary tracking technologies are masked (GPS & TBT), our device will detect, record, and store the information that it is or is not changing location.

CELLULAR DATA SERVICE

The 1 Piece and 2 Piece GPS devices have quad-band wireless modems and high sensitivity antennas that provide real-time cellular communication for the tracking and rules information to be transmitted wirelessly using the GSM/GPRS network.

Our devices are compatible with multiple wireless carriers for data communication and are certified for use on both AT&T and T-Mobile networks, offering the largest cellular data coverage area in United States. The units will roam on any AT&T and T-Mobile approved GSM network. AT&T has the best coverage available and in fact, recently reported that 100% of Fortune 1,000 companies use AT&T's cellular data service—every single one. 3M uses AT&T's cellular data; ergo, we have the best cellular coverage available on any data network.

Appendix v: Leased Equipment Limited Warranty

Limited Warranty. 3M warrants to Customer as follows: (i) that the Equipment and the Services shall be free of defects in workmanship and material and shall operate in accordance with and substantially conform to the documentation provided by 3M (which is materially accurate and complete); (ii) that 3M shall correct any such defect or nonconformance by repair or replacement at 3M's expense; and (iii) that all work and services provided by 3M under this Agreement shall be performed by qualified personnel in a professional and workmanlike manner, and; (iv) that the Equipment is intended for offender tracking purposes and is NOT intended to deter or prevent crime. EXCEPT TO THE EXTENT PROHIBITED BY APPLICABLE LAW, THIS WARRANTY, UNLESS OTHERWISE STATED, IS MADE IN LIEU OF ALL OTHER WARRANTIES, RIGHTS OR CONDITIONS, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND THOSE ARISING FROM A COURSE OF DEALING, CUSTOM OR USAGE OF TRADE. CUSTOMER IS RESPONSIBLE FOR DETERMINING IF EQUIPMENT FITS THE PARTICULAR PURPOSE AND IS SUITABLE FOR THE INTENDED USE. This limited warranty is intended as the exclusive remedy of Customer with respect to any claim for damage, liability, or expense resulting from or due to the condition, malfunction, or failure of the Equipment and Services, whether or not the failure of the Equipment or Services in any respect arises out of the negligent acts or omissions of 3M, its agents, or employees.

Intentional Damage and Obliterating Markings. Customer agrees: i) Customer shall not intentionally damage the Equipment (and 3M shall have no responsibility to repair or replacement of any Equipment intentionally damaged by Customer or program participants); and ii) Customer shall not obliterate or remove any markings placed on the Equipment except as agreed by 3M.

3M™ One-Piece GPS Offender Tracking Device



3M Electronic Monitoring's One-Piece GPS tracking device was designed specifically for offender monitoring operations, with security redundancies and anti-tamper means built-in across the platform, making the tracking systems trusted and reliable. The One-Piece device tracks offenders utilizing GPS technology and communicates the data via GPRS. Each monitored offender is assigned a tracking device which continuously tracks in real-time. The One-Piece device stores and processes the tracking data and communicates with the monitoring center or assigned officers to report locations or violations. Alerts are pre-set to individual schedules and zone restrictions.

- Specifications

- Simple activation
- Alerts the offender on presence and schedule violations even when cellular coverage is unavailable
- Lightweight, wearable tracking device that securely attaches to the offender's ankle
- Adjustable and easy to install strap
- Hypoallergenic and waterproof
- 48-hour battery life on a 2-hour charge
- Two-way communication with offender via LED lights and vibrating alerts
- Back-up location detection using cellular network based positioning
- Multi-colored LED status indicators - Power, GPS reception, and Zone violations
- Programmable soft key for offender communication and system activation
- Active, passive, or hybrid modes
- Quick release magnetic battery charger
- Dimensions: 2.5" wide x 4.5" tall x 1.5" deep
- FCC ID: NC3WMTD3418

3M Electronic Monitoring

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Odessa, FL 33556
813 749 5454 Office
888 677 6278 Office
813 749 5474 Fax
www.3m.com/electronicmonitoring



May 30, 2013

Mr. Jim Hansen, Assistant Director of Purchasing
Kane County Illinois - Purchasing
719 S. Batavia Ave., Bldg A, 2nd Floor
Geneva, IL 60134

RE: Contractors Disclosure Statement - 3M Electronic Monitoring, Inc.

Dear Jim,

In regards to your email dated May 30, 2013, 3M Electronic Monitoring responds as follows:

1. 3M Electronic Monitoring, Inc., or hired lobbyists, have made no campaign contributions to any current officer or county-wide elected officer
2. 3M Electronic Monitoring, Inc., has no entity or individual (principal, executive, or board member) having a legal or beneficial interest of more than 5%. 3M Electronic Monitoring Inc. is a wholly owned subsidiary of 3M Companies

3M Companies has two entities which hold interest in 3M Companies of 5% or greater:

State Street Global Advisors 50,854,442 shares held (7.4%)
The Vanguard Group, Inc. 34,962,057 shares held (5.1%)

3. 3M Electronic Monitoring, Inc. has no lobbyist, agents, representatives or individuals other than those individuals required to service the Kane County contract pursuant to the terms and conditions of the bid, who will have contact with the County employees or officials. The applicable employees would include Mr. David Talarico, Sales Manager, and Mr. Greg Macon, Account Manager.

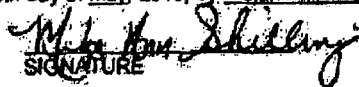
If you need any additional information, I may be reached at 813-749-5454.

Kind regards,

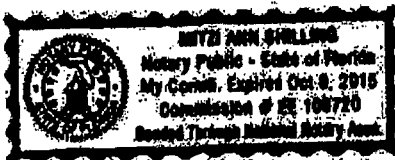
3M Electronic Monitoring, Inc.


Alejandra A. Lang
President

STATE OF FLORIDA COUNTY OF PASCQ
Sworn to and subscribed before me this 30th day of May, 2013, by Alejandra A. Lang who is personally known to me.


SIGNATURE

Mitzi Ann Shilling, Notary Public





CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)
03/01/2011

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER Willis of Minnesota, Inc. 26 Century Blvd. P. O. Box 305191 Nashville, TN 37230-5191	CONTACT NAME:		
	PHONE (A/C NO. EXT):	877-945-7378	FAX (A/C NO.): 888-467-2378
	E-MAIL ADDRESS:	certificates@willis.com	
	INSURER(S) AFFORDING COVERAGE	NAIC #	
	INSURER A:	Old Republic Insurance Company	24147-001
INSURED Pro Tech Monitoring Inc., A 3M Company 1838 Gunn Highway Odessa, FL 33556	INSURER B:	National Union Fire Insurance Company of	19445-002
	INSURER C:		
	INSURER D:		
	INSURER E:		
	INSURER F:		

COVERAGES CERTIFICATE NUMBER: 15566907 REVISION NUMBER:

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN. THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADD'L SUBR INSRD WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
A	GENERAL LIABILITY <input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR	Y	MWZY 59131	3/1/2011	3/1/2014	EACH OCCURRENCE \$ 5,000,000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 1,000,000 MED EXP (Any one person) \$ 10,000 PERSONAL & ADV INJURY \$ 5,000,000 GENERAL AGGREGATE \$ 5,000,000 PRODUCTS - COMP/OP AGG \$ 5,000,000
A	AUTOMOBILE LIABILITY <input checked="" type="checkbox"/> ANY AUTO <input type="checkbox"/> ALL OWNED AUTOS <input type="checkbox"/> HIRED AUTOS <input type="checkbox"/> SCHEDULED AUTOS <input type="checkbox"/> NON-OWNED AUTOS		MWTB 21146	3/1/2011	3/1/2014	COMBINED SINGLE LIMIT (Ea accident) \$ 2,000,000 BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$
	UMBRELLA LIAB <input type="checkbox"/> OCCUR EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE DED <input type="checkbox"/> RETENTION \$					EACH OCCURRENCE \$ AGGREGATE \$
A	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? <input type="checkbox"/> Y/N (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below	N/A	MWC116992 00	3/1/2011	3/1/2012	<input checked="" type="checkbox"/> WC STATUTORY LIMITS <input type="checkbox"/> OTHER E.L. EACH ACCIDENT \$ 2,000,000 E.L. DISEASE - EA EMPLOYEE \$ 2,000,000 E.L. DISEASE - POLICY LIMIT \$ 2,000,000
B	Errors and Omissions		015829017	3/1/2011	3/1/2012	\$2,000,000 Aggregate

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (Attach Acord 101, Additional Remarks Schedule, if more space is required)
RFP: 02-010 GPS System & Monitoring Service

The interest of Kane County is included as Additional Insured under policies indicated above, solely w/respect to products provided by or operations performed by the Named Insured.

CERTIFICATE HOLDER County of Kane Kane County Government Center Purchasing Department 719 E. Batavia Avenue, Bldg A Geneva, IL 60134	CANCELLATION SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS. AUTHORIZED REPRESENTATIVE
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