

**PROFESSIONAL SERVICES AGREEMENT**

**Automatic Vehicle Location System**

**Contract #12-28-318**

BETWEEN



COOK COUNTY GOVERNMENT

Bureau of Technology

AND

**Radio Satellite Integrators, Inc.**

APPROVED BY BOARD OF  
COOK COUNTY COMMISSIONERS

FEB 19 2014

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# PROFESSIONAL SERVICES AGREEMENT

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Exhibit 2	Schedule of Compensation
Exhibit 3	Cook County Travel Policy
Exhibit 4	Evidence of Insurance
Exhibit 5	Board Authorization

## AGREEMENT

This Agreement is made and entered into by and between the County of Cook, a public body corporate of the State of Illinois, on behalf of Office of the Chief Procurement Officer hereinafter referred to as "County" and Radio Satellite Integrators, Inc. doing business as a(an) corporation of the State of Florida hereinafter referred to as "Consultant", pursuant to authorization by the Cook County Board of Commissioners on February 19, 2014 as evidenced by Board Authorization letter attached hereto as EXHIBIT "5".

## BACKGROUND

*The County of Cook issued a Request for Proposals "RFP" for an automatic vehicle location system. Proposals were evaluated in accordance with the evaluation criteria published in the RFP. The Consultant was selected based on the proposal submitted and evaluated by the County representatives.*

*Consultant represents that it has the professional experience and expertise to provide the necessary services and further warrants that it is ready, willing and able to perform in accordance with the terms and conditions as set forth in this Agreement.*

**NOW, THEREFORE,** the County and Consultant agree as follows:

### **TERMS AND CONDITIONS**

#### **ARTICLE 1) INCORPORATION OF BACKGROUND**

The Background information set forth above is incorporated by reference as if fully set forth here.

#### **ARTICLE 2) DEFINITIONS**

**a) Definitions**

The following words and phrases have the following meanings for purposes of this Agreement:

**"Additional Services"** means those services which are within the general scope of Services of this Agreement, but beyond the description of services required under Article 3, and all services reasonably necessary to complete the Additional Services to the standards of performance required by this Agreement. Any Additional Services requested by the Department require the approval of the Chief Procurement Officer in a written modification to this Agreement before Consultant is obligated to perform those Additional Services and before the County becomes obligated to pay for those Additional Services.

"**Agreement**" means this Professional Services Agreement, including all exhibits attached to it and incorporated in it by reference, and all amendments, modifications or revisions made in accordance with its terms.

"**Chief Procurement Officer**" means the Chief Procurement Officer for the County of Cook and any representative duly authorized in writing to act on his behalf.

"**Department**" means the Cook County Using Department.

"**Services**" means, collectively, the services, duties and responsibilities described in Article 3 of this Agreement and any and all work necessary to complete them or carry them out fully and to the standard of performance required in this Agreement.

"**Subcontractor**" means any person or entity with whom Consultant contracts to provide any part of the Services, including subcontractors and subconsultants of any tier, suppliers and materials providers, whether or not in privity with Consultant.

**b) Interpretation**

i) The term "**include**" (in all its forms) means "include, without limitation" unless the context clearly states otherwise.

ii) All references in this Agreement to Articles, Sections or Exhibits, unless otherwise expressed or indicated are to the Articles, Sections or Exhibits of this Agreement.

iii) Words importing persons include firms, associations, partnerships, trusts, corporations and other legal entities, including public bodies, as well as natural persons.

iv) Any headings preceding the text of the Articles and Sections of this Agreement, and any table of contents or marginal notes appended to it, are solely for convenience or reference and do not constitute a part of this Agreement, nor do they affect the meaning, construction or effect of this Agreement.

v) Words importing the singular include the plural and vice versa. Words of the masculine gender include the correlative words of the feminine and neuter genders.

vi) All references to a number of days mean calendar days, unless expressly indicated otherwise.

**c) Incorporation of Exhibits**

The following attached Exhibits are made a part of this Agreement:

Exhibit 1	Scope of Work
Exhibit 2	Schedule of Compensation
Exhibit 3	Cook County Travel Policy

- Exhibit 4 Evidence of Insurance
- Exhibit 5 Board Authorization

### **ARTICLE 3) DUTIES AND RESPONSIBILITIES OF CONSULTANT**

#### **a) Scope of Work**

This description of Services is intended to be general in nature and is neither a complete description of Consultant's Services nor a limitation on the Services that Consultant is to provide under this Agreement. Consultant must provide the Services in accordance with the standards of performance set forth in Section 3c. The Services that Consultant must provide include, but are not limited to, those described in Exhibit 1, Scope of Work, which is attached to this Agreement and incorporated by reference as if fully set forth here.

#### **b) Deliverables**

In carrying out its Services, Consultant must prepare or provide to the County various Deliverables as described in the Scope of Work attached as Exhibit 1. "**Deliverables**" include, but are not limited to, work product, such as written reviews, recommendations, reports and analyses, produced by Consultant for the County. Acceptance Testing of the system described in the Scope of Work, which includes the Services and Deliverables, shall be conducted in accordance with Section I.1.3 of the Scope of Work.

The County may reject Deliverables that do not include relevant information or data, or do not include all documents or other materials specified in this Agreement or reasonably necessary for the purpose for which the County made this Agreement or for which the County intends to use the Deliverables. If the County determines that Consultant has failed to comply with the foregoing standards, it has 30 days from the discovery to notify Consultant of its failure. If Consultant does not correct the failure, if it is possible to do so, within 30 days after receipt of notice from the County specifying the failure, then the County, by written notice, may treat the failure as a default of this Agreement under Article 9.

Partial or incomplete Deliverables may be accepted for review only when required for a specific and well-defined purpose and when consented to in advance by the County. Such Deliverables will not be considered as satisfying the requirements of this Agreement and partial or incomplete Deliverables in no way relieve Consultant of its commitments under this Agreement. Consultant warrants all Deliverables that Consultant tenders to the County under this Agreement as set out in Section 1.2.6 of the Scope of Work.

#### **c) Standard of Performance**

Consultant must perform all Services required of it under this Agreement with that degree of skill, care and diligence normally shown by a consultant performing services of a scope and purpose and magnitude comparable with the nature of the Services to be provided under this

Agreement. Consultant acknowledges that it is entrusted with or has access to valuable and confidential information and records of the County and with respect to that information, Consultant agrees to be held to the standard of care of a fiduciary.

Consultant must assure that all Services that require the exercise of professional skills or judgment are accomplished by professionals qualified and competent in the applicable discipline and appropriately licensed, if required by law. Consultant must provide copies of any such licenses. Consultant remains responsible for the professional and technical accuracy of all Services or Deliverables furnished, whether by Consultant or its Subcontractors or others on its behalf. All Deliverables must be prepared in a form and content satisfactory to the Department and delivered in a timely manner consistent with the requirements of this Agreement.

If Consultant fails to comply with the foregoing standards, Consultant must perform again, at its own expense, all Services required to be re-performed as a direct or indirect result of that failure. Any review, approval, acceptance or payment for any of the Services by the County does not relieve Consultant of its responsibility for the professional skill and care and technical accuracy of its Services and Deliverables. This provision in no way limits the County's rights against Consultant either under this Agreement, at law or in equity.

**d) Personnel**

**i) Adequate Staffing**

Consultant must, upon receiving a fully executed copy of this Agreement, assign and maintain during the term of this Agreement and any extension of it an adequate staff of competent personnel that is fully equipped, licensed as appropriate, available as needed, qualified and assigned exclusively to perform the Services. Consultant must include among its staff the Key Personnel and positions as identified below. The level of staffing may be revised from time to time by notice in writing from Consultant to the County and with written consent of the County, which consent the County will not withhold unreasonably. If the County fails to object to the revision within 14 days after receiving the notice, then the revision will be considered accepted by the County.

**ii) Key Personnel**

Consultant must not reassign or replace Key Personnel without the written consent of the County, which consent the County will not unreasonably withhold. "Key Personnel" means those job titles and the persons assigned to those positions in accordance with the provisions of this Section 3.d(ii). The Department may at any time in writing notify Consultant that the County will no longer accept performance of Services under this Agreement by one or more Key Personnel listed. Upon that notice Consultant must immediately suspend the services of the key person or persons and must replace him or them in accordance with the terms of this Agreement. A list of Key Personnel is found in Exhibit 1, Scope of Work.

iii) **Salaries and Wages**

Consultant and Subcontractors must pay all salaries and wages due all employees performing Services under this Agreement unconditionally and at least once a month without deduction or rebate on any account, except only for those payroll deductions that are mandatory by law or are permitted under applicable law and regulations. If in the performance of this Agreement Consultant underpays any such salaries or wages, the Comptroller for the County may withhold, out of payments due to Consultant, an amount sufficient to pay to employees underpaid the difference between the salaries or wages required to be paid under this Agreement and the salaries or wages actually paid these employees for the total number of hours worked. The amounts withheld may be disbursed by the Comptroller for and on account of Consultant to the respective employees to whom they are due. The parties acknowledge that this Section 3.4(c) is solely for the benefit of the County and that it does not grant any third party beneficiary rights.

e) **Minority and Women's Business Enterprises Commitment**

In the performance of this Agreement, including the procurement and lease of materials or equipment, Consultant must abide by the minority and women's business enterprise commitment requirements of the Cook County Ordinance, (Article IV, Section 34-267 through 272) except to the extent waived by the Compliance Director. Consultant's completed MBE/WBE Utilization Plan evidencing its compliance with this requirement are a part of this Agreement, in Section 1 of the Economic Disclosure Statement, upon acceptance by the Compliance Director. Consultant must utilize minority and women's business enterprises at the greater of the amounts committed to by the Consultant for this Agreement in accordance with Section 1 of the Economic Disclosure Statement.

f) **Insurance**

Consultant must provide and maintain at Consultant's own expense, during the term of this Agreement and any time period following expiration if Consultant is required to return and perform any of the Services or Additional Services under this Agreement, the insurance coverages and requirements specified below, insuring all operations related to this Agreement.

i) **Insurance To Be Provided**

(1) Workers Compensation and Employers Liability

Workers Compensation Insurance, as prescribed by applicable law, covering all employees who are to provide a service under this Agreement and Employers Liability coverage with limits of not less than \$500,000 each accident or illness.

(2) Commercial General Liability (Primary)

Commercial General Liability Insurance or equivalent with limits of not less than \$2,000,000 per occurrence for bodily injury, personal injury and property damage liability. Coverages must include the following: All premises and operations, products/completed operations, separation of insureds, defense and contractual liability (with no limitation endorsement). Cook County is to be named as an additional insured on a primary, non-contributory basis for any liability arising directly or indirectly from the Services.

Subcontractors performing Services for Consultant must maintain limits of not less than \$1,000,000 with the same terms in this Section 3.6(a)(ii).

(3) Automobile Liability (Primary)

When any motor vehicles (owned, non-owned and hired) are used in connection with Services to be performed, Consultant must provide Automobile Liability Insurance with limits of not less than \$1,000,000 per occurrence limit, for bodily injury and property damage. The County is to be named as an additional insured on a primary, non-contributory basis.

(4) Valuable Papers

When any designs, drawings, specifications and documents are produced or used under this Agreement, Valuable Papers Insurance must be maintained in an amount to insure against any loss whatsoever, and must have limits sufficient to pay for the re-creation and reconstruction of such records.

ii) **Additional Requirements**

(1) Consultant must furnish the County of Cook, Cook County, Office of the Chief Procurement Officer, 118 N. Clark St., Room 1018, Chicago, IL 60602, original Certificates of Insurance, or such similar evidence, to be in force on the date of this Agreement, and Renewal Certificates of Insurance, or such similar evidence, if the coverages have an expiration or renewal date occurring during the term of this Agreement. Consultant must submit evidence of insurance on the County Insurance Certificate Form (copy attached as Exhibit 4) or equivalent prior to Agreement award. The receipt of any certificate does not constitute agreement by the County that the insurance requirements in this Agreement have been fully met or that the insurance policies indicated on the certificate are in compliance with all Agreement requirements. The failure of the County to obtain certificates or other insurance evidence from Consultant is not a waiver by the County of any requirements for Consultant to obtain and maintain the specified coverages. Consultant must advise all insurers of the provisions in this Agreement regarding insurance. Non-conforming insurance does not relieve Consultant of the obligation to provide insurance as specified in this Agreement. Nonfulfillment of the insurance conditions may constitute a violation of this Agreement, and the County retains the right to terminate this Agreement or to suspend this Agreement until proper evidence of insurance is provided.

- (1) The insurance must provide for 60 days prior written notice to be given to the County in the event coverage is substantially changed, canceled or non-renewed. All deductibles or self-insured retentions on referenced insurance coverages must be borne by Consultant. Consultant agrees that insurers waive their rights of subrogation against the County of Cook, its employees, elected officials, agents or representatives.
- (2) The coverages and limits furnished by Consultant in no way limit Consultant's liabilities and responsibilities specified within this Agreement or by law. Any insurance or self-insurance programs maintained by the County of Cook apply in excess of and do not contribute with insurance provided by Consultant under this Agreement.
- (3) The required insurance is not limited by any limitations expressed in the indemnification language in this Agreement or any limitation placed on the indemnity in this Agreement given as a matter of law.
- (4) Consultant must require all Subcontractors to provide the insurance required in this Agreement, or Consultant may provide the coverages for Subcontractors. All Subcontractors are subject to the same insurance requirements as Consultant unless otherwise specified in this Agreement. If Consultant or Subcontractor desires additional coverages, the party desiring the additional coverages is responsible for its acquisition and cost.
- (5) The County's Risk Management Office maintains the right to modify, delete, alter or change these requirements. "**Risk Management Office**" means the Risk Management Office, which is under the direction of the Director of Risk Management and is charged with reviewing and analyzing insurance and related liability matters for the County.

**g) Indemnification**

The Consultant covenants and agrees to indemnify and hold harmless the County and its commissioners, officials, employees, agents and representatives, and their respective heirs, successors and assigns, from and against any and all costs, expenses, attorney's fees, losses, damages and liabilities incurred or suffered directly or indirectly from or attributable to any claims ("Losses") arising out of or incident to the performance or nonperformance of the Contract by the Consultant, or the acts or omissions of the officers, agents, employees, contractors, subcontractors, licensees or invitees of the Consultant. The Consultant expressly understands and agrees that any Performance Bond or insurance protection required of the Consultant, or otherwise provided by the Consultant, shall in no way limit the responsibility to indemnify the County as hereinabove provided. Notwithstanding the foregoing, except where it has been determined in a judicial proceeding that Consultant acted with gross negligence or willful misconduct, Consultant's liability to the County for damages shall not exceed the total amount paid by the County to the Consultant under this Agreement (the "**Contract Cap**"). Neither party shall be liable to the other party for any special, indirect, incidental or consequential damages, except for actions, claims or damages related to intellectual property indemnification, data breaches, or breaches of confidentiality.

**h) Confidentiality and Ownership of Documents and Data**

Consultant acknowledges and agrees that information regarding this Contract is confidential and shall not be disclosed, directly, indirectly or by implication, or be used by Consultant in any way, whether during the term of this Contract or at any time thereafter, except solely as required in the course of Consultant's performance hereunder. Consultant further agrees to comply with the confidentiality requirements for County Data as defined and set out in Section 1.2.5 of the Scope of Work. Consultant shall comply with the applicable privacy laws and regulations affecting County and will not disclose any of County's records, materials, or other data to any third party. Consultant shall not have the right to compile and distribute statistical analyses and reports utilizing data derived from information or data obtained from County without the prior written approval of County. In the event such approval is given, any such reports published and distributed by Consultant shall be furnished to County without charge.

All documents, data, studies, reports, work product or product created as a result of the performance of the Contract (the "Documents") shall be included in the Deliverables and shall be the property of the County of Cook. It shall be a breach of this Contract for the Consultant to reproduce or use any documents, data, studies, reports, work product or product obtained from the County of Cook or any Documents created hereby, whether such reproduction or use is for Consultant's own purposes or for those of any third party. During the performance of the Contract Consultant shall be responsible of any loss or damage to the Documents while they are in Consultant's possession, and any such loss or damage shall be restored at the expense of the Consultant. The County and its designees shall be afforded full access to the Documents and the work at all times.

**i) Patents, Copyrights and Licenses**

If applicable, Consultant shall furnish the Chief Procurement Officer with all licenses required for the County to utilize any software, including firmware or middleware, provided by Consultant as part of the Deliverables. Such licenses shall be clearly marked with a reference to the number of this County Contract. Consultant shall also furnish a copy of such licenses to the Chief Procurement Officer. Unless otherwise stated in these Contract documents, such licenses shall be perpetual and shall not limit the number of persons who may utilize the software on behalf of the County.

Consultant agrees to hold harmless and indemnify the County, its officers, agents, employees and affiliates from and defend, at its own expense (including reasonable attorneys', accountants' and consultants' fees), any suit or proceeding brought against County based upon a claim that the ownership and/or use of equipment, hardware and software or any part thereof provided to the County or utilized in performing Consultant's services constitutes an infringement of any patent, copyright or license or any other property right.

If a Deliverable is determined or adjudged to infringe an intellectual property right of a third party, Consultant shall also, at its option and in its sole discretion and at its expense, either:

1. Attempt to secure a license to permit County to continue using the accused Deliverable;
2. If Consultant is unable to secure a temporary license, without impairing either (i) performance requirements of the Deliverable, or any part, combination, process thereof, or (ii) other normal operations of the County, replace the affected Deliverable, part, combination or process thereof with non-infringing components or parts; or
3. Refund all monies paid by County to Consultant prior to the third-party claim.

In the event the use of any equipment, hardware or software or any part thereof is enjoined, Consultant with all reasonable speed and due diligence shall provide or otherwise secure for County, at the Consultant's election, one of the following: the right to continue use of the equipment, hardware or software; an equivalent system having the Specifications as provided in this Contract; or Consultant shall modify the system or its component parts so that they become non-infringing while performing in a substantially similar manner to the original system, meeting the requirements of this Contract.

**j) Examination of Records and Audits**

The Consultant agrees that the Cook County Auditor or any of its duly authorized representatives shall, until expiration of three (3) years after the final payment under the Contract, have access and the right to examine any books, documents, papers, canceled checks, bank statements, purveyor's and other invoices, and records of the Consultant related to the Contract, or to Consultant's compliance with any term, condition or provision thereof. The Consultant shall be responsible for establishing and maintaining records sufficient to document the costs associated with performance under the terms of this Contract.

The Consultant further agrees that it shall include in all of its subcontracts hereunder a provision to the effect that the subcontractor agrees that the Cook County Auditor or any of its duly authorized representatives shall, until expiration of three (3) years after final payment under the subcontract, have access and the right to examine any books, documents, papers, canceled checks, bank statements, purveyor's and other invoices and records of such subcontractor involving transactions relating to the subcontract, or to such subcontractor's compliance with any term, condition or provision thereunder or under the Contract.

In the event the Consultant receives payment under the Contract, reimbursement for which is later disallowed by the County, the Consultant shall promptly refund the disallowed amount to the County on request, or at the County's option, the County may credit the amount disallowed from the next payment due or to become due to the Consultant under any contract with the County.

To the extent this Contract pertains to Deliverables which may be reimbursable under the Medicaid or Medicare Programs, Consultant shall retain and make available upon request, for a period of four (4) years after furnishing services pursuant to this Agreement, the contract, books, documents and records which are necessary to certify the nature and extent of the costs of such services if requested by the Secretary of Health and Human Services or the Comptroller General of the United States or any of their duly authorized representatives. If Consultant carries out any of its duties under the Agreement through a subcontract with a related organization involving a

value of cost of \$10,000.00 or more over a 12 month period, Consultant will cause such subcontract to contain a clause to the effect that, until the expiration of four years after the furnishing of any service pursuant to said subcontract, the related organization will make available upon request of the Secretary of Health and Human Services or the Comptroller General of the United States or any of their duly authorized representatives, copies of said subcontract and any books, documents, records and other data of said related organization that are necessary to certify the nature and extent of such costs. This paragraph relating to the retention and production of documents is included because of possible application of Section 1861(v)(1)(I) of the Social Security Act to this Agreement; if this Section should be found to be inapplicable, then this paragraph shall be deemed inoperative and without force and effect.

**k) Subcontract Subcontracting or Assignment of Contract or Contract Funds**

Once awarded, this Contract shall not be subcontracted or assigned, in whole or in part, without the advance written approval of the Chief Procurement Officer, which approval shall be granted or withheld at the sole discretion of the Chief Procurement Officer. In no case, however, shall such approval relieve the Consultant from its obligations or change the terms of the Contract. The Consultant shall not transfer or assign any Contract funds or any interest therein due or to become due without the advance written approval of the Chief Procurement Officer. The unauthorized subcontracting or assignment of the Contract, in whole or in part, or the unauthorized transfer or assignment of any Contract funds, either in whole or in part, or any interest therein, which shall be due or are to become due the Consultant shall have no effect on the County and are null and void.

Prior to the commencement of the Contract, the Consultant shall identify in writing to the Chief Procurement Officer the names of any and all subcontractors it intends to use in the performance of the Contract. The Chief Procurement Officer shall have the right to disapprove any subcontractor. Identification of subcontractors to the Chief Procurement Officer shall be in addition to any communications with County offices other than the Chief Procurement Officer. All subcontractors shall be subject to the terms of this Contract. Consultant shall incorporate into all subcontracts all of the provisions of the Contract which affect such subcontract. Copies of subcontracts shall be provided to the Chief Procurement Officer upon request.

The Consultant must disclose the name and business address of each subcontractor, attorney, lobbyist, accountant, consultant and any other person or entity whom the Consultant has retained or expects to retain in connection with the Matter, as well as the nature of the relationship, and the total amount of the fees paid or estimated to be paid. The Consultant is not required to disclose employees who are paid or estimated to be paid. The Consultant is not required to disclose employees who are paid solely through the Consultant's regular payroll. "Lobbyist" means any person or entity who undertakes to influence any legislation or administrative action on behalf of any person or entity other than: 1) a not-for-profit entity, on an unpaid basis, or (2), himself. "Lobbyist" also means any person or entity any part of whose duties as an employee of another includes undertaking to influence any legislative or administrative action. If the Consultant is uncertain whether a disclosure is required under this Section, the Consultant must either ask the County whether disclosure is required or make the disclosure.

The County reserves the right to prohibit any person from entering any County facility for any reason. All Consultants and subcontractors of the Consultant shall be accountable to the Chief Procurement Officer or his designee while on any County property and shall abide by all rules and regulations imposed by the County.

#### **ARTICLE 4) TERM OF PERFORMANCE**

##### **a) Term of Performance**

This Agreement takes effect when approved by the Cook County Board and its term shall begin on March 1, 2014 ("**Effective Date**") and continue for a period of five (5) years from the Effective Date of this Agreement or until this Agreement is terminated in accordance with its terms, whichever occurs first.

##### **b) Timeliness of Performance**

i) Consultant must provide the Services and Deliverables within the term and within the time limits required under this Agreement, pursuant to the provisions of Section 4.a and Exhibit 1, Scope of Work. Further, Consultant acknowledges that TIME IS OF THE ESSENCE and that the failure of Consultant to comply with the time limits described in this Section 4.b may result in economic or other losses to the County.

ii) Neither Consultant nor Consultant's agents, employees or Subcontractors are entitled to any damages from the County, nor is any party entitled to be reimbursed by the County, for damages, charges or other losses or expenses incurred by Consultant by reason of delays or hindrances in the performance of the Services, whether or not caused by the County.

##### **c) Agreement Extension Option**

The Chief Procurement Officer may at any time before this Agreement expires elect to extend this Agreement for up to five (5) additional one-year periods under the same terms and conditions as this original Agreement, except as provided otherwise in this Agreement, by notice in writing to Consultant. After notification by the Chief Procurement Officer, this Agreement must be modified to reflect the time extension in accordance with the provisions of Section 10.c.

#### **ARTICLE 5) COMPENSATION**

##### **a) Basis of Payment**

The County will pay Consultant according to the Schedule of Compensation in the attached Exhibit 2 for the successful completion of services. Consultant shall provide the Deliverables at the fixed costs set forth in the Agreement and at the contract amount of \$1,736,800 (excluding any renewal options) as further detailed in Exhibit 2. Should the County

exercise any of the five (5) one-year extension periods described in Article 4(c), then the County's per-device Monthly Service Fee shall be reduced by three dollars (\$3) per device from that amount set forth in Exhibit 2. For example, should the County exercise two of the extension options, then the \$28 per-device Monthly Service Fee set forth in Exhibit 2 shall be reduced to twenty-five dollars in both year six and year seven (i.e., the reduction remains constant across all five one-year extension periods and is not cumulative).

All travel and expenses ("T&E") allowed under this Agreement are set forth in Exhibit 2; furthermore, all invoices on which Consultant seeks T&E reimbursement shall itemize T&E items and shall also conform to the Cook County Travel Policy, which is attached here as Exhibit 3.

**b) Method of Payment**

All invoices submitted by the Consultant shall be in accordance with the cost provisions according to the Schedule of Compensation in the attached Exhibit 2. The invoices shall contain a detailed description of the Deliverables for which payment is requested. All invoices shall reflect the amounts invoiced by and the amounts paid to the Consultant as of the date of the invoice, and shall be submitted together with a properly completed County Voucher form (29A). Invoices for new charges shall not include "past due" amounts, if any, which amounts must be set forth on a separate invoice. No payments shall be made with respect to invoices which do not include the County Voucher form or which otherwise fail to comply with the requirements of this paragraph. Consultant shall not be entitled to invoice the County for any late fees or other penalties.

**c) Funding**

Payments under this Agreement must not exceed the dollar amount shown in Exhibit 2 without a written amendment in accordance with Section 10.c.

**d) Non-Appropriation**

If no funds or insufficient funds are appropriated and budgeted in any fiscal period of the County for payments to be made under this Agreement, then the County will notify Consultant in writing of that occurrence, and this Agreement will terminate on the earlier of the last day of the fiscal period for which sufficient appropriation was made or whenever the funds appropriated for payment under this Agreement are exhausted. Payments for Services completed to the date of notification will be made to Consultant. No payments will be made or due to Consultant and under this Agreement beyond those amounts appropriated and budgeted by the County to fund payments under this Agreement.

**e) Taxes**

Federal Excise Tax does not apply to materials purchased by the County by virtue of Exemption Certificate No. 36-75-0038K. Illinois Retailers' Occupation Tax, Use Tax and

Municipal Retailers' Occupation Tax do not apply to deliverables, materials or services purchased by the County by virtue of statute. The price or prices quoted herein shall include any and all other federal and/or state, direct and/or indirect taxes which apply to this Contract. The County's State of Illinois Sales Tax Exemption Identification No. is E-9998-2013-05.

**f) Price Reduction**

If at any time after the contract award, Consultant makes a general price reduction in the price of any of the Deliverables, the equivalent price reduction based on similar quantities and/or considerations shall apply to this Contract for the duration of the Contract period. For purposes of this Section 5.f., Price Reduction, a general price reduction shall include reductions in the effective price charged by Consultant by reason of rebates, financial incentives, discounts, value points or other benefits with respect to the purchase of the Deliverables. Such price reductions shall be effective at the same time and in the same manner as the reduction Consultant makes in the price of the Deliverables to its prospective customers generally.

**g) Consultant Credits**

To the extent the Consultant gives credits toward future purchases of goods or services, financial incentives, discounts, value points or other benefits based on the purchase of the materials or services provided for under this Contract, such credits belong to the County and not any specific using department. Consultant shall reflect any such credits on its invoices and in the amounts it invoices the County.

**ARTICLE 6) DISPUTES**

Any dispute arising under the Contract between the County and Consultant shall be decided by the Chief Procurement Officer. The complaining party shall submit a written statement detailing the dispute and specifying the specific relevant Contract provision(s) to the Chief Procurement Officer. Upon request of the Chief Procurement Officer, the party complained against shall respond to the complaint in writing within five days of such request. The Chief Procurement Officer will reduce her decision to writing and mail or otherwise furnish a copy thereof to the Consultant. Dispute resolution as provided herein shall be a condition precedent to any other action at law or in equity, which each party expressly reserves. However, unless a notice is issued by the Chief Procurement Officer indicating that additional time is required to review a dispute, the parties may exercise their contractual remedies, if any, if no decision is made within sixty (60) days following notification to the Chief Procurement Officer of a dispute. No inference shall be drawn from the absence of a decision by the Chief Procurement Officer. Notwithstanding a dispute, Consultant shall continue to discharge all its obligations, duties and responsibilities set forth in the Contract during any dispute resolution proceeding unless otherwise agreed to by the County in writing.

**ARTICLE 7) COMPLIANCE WITH ALL LAWS**

The Consultant shall observe and comply with the laws, ordinances, regulations and codes of the

Federal, State, County and other local government agencies which may in any manner affect the performance of the Contract including, but not limited to, those County Ordinances set forth in the Certifications attached hereto and incorporated herein. Assurance of compliance with this requirement by the Consultant's employees, agents or subcontractors shall be the responsibility of the Consultant.

The Consultant shall secure and pay for all federal, state and local licenses, permits and fees required hereunder.

## **ARTICLE 8) SPECIAL CONDITIONS**

### **a) Warranties and Representations**

In connection with signing and carrying out this Agreement, Consultant:

- i) warrants that Consultant is appropriately licensed under Illinois law to perform the Services required under this Agreement and will perform no Services for which a professional license is required by law and for which Consultant is not appropriately licensed;
- ii) warrants it is financially solvent; it and each of its employees, agents and Subcontractors of any tier are competent to perform the Services required under this Agreement; and Consultant is legally authorized to execute and perform or cause to be performed this Agreement under the terms and conditions stated in this Agreement;
- iii) warrants that it will not knowingly use the services of any ineligible consultant or Subcontractor for any purpose in the performance of its Services under this Agreement;
- iv) warrants that Consultant and its Subcontractors are not in default at the time this Agreement is signed, and have not been considered by the Chief Procurement Officer to have, within 5 years immediately preceding the date of this Agreement, been found to be in default on any contract awarded by the County;
- v) warrants that the County will have all rights necessary to use all CalAmp mobile devices, and accompanying software, with other vendors after the termination of this Agreement; provided that RSI need not ensure CalAmp device compatibility with other vendors, only that the County has the rights to use such devices and such firmware or any embedded software; provided further that such rights to use such accompanying software shall not include the County's right to use Consultant's remotely hosted enterprise level AVL system after the termination of this Agreement.
- vi) represents that it has carefully examined and analyzed the provisions and requirements of this Agreement; it understands the nature of the Services required; from its own analysis it has satisfied itself as to the nature of all things needed for the performance of this Agreement; this Agreement is feasible of performance in accordance with all of its provisions and requirements,

and Consultant warrants it can and will perform, or cause to be performed, the Services in strict accordance with the provisions and requirements of this Agreement;

vii) represents that Consultant and, to the best of its knowledge, its Subcontractors are not in violation of the provisions of the Illinois Criminal Code, 720 ILCS 5/33E as amended;

viii) represents that Consultant is not involved in any pending litigation with any party, including, but not limited to ESRI; and

ix) acknowledges that any certification, affidavit or acknowledgment made under oath in connection with this Agreement is made under penalty of perjury and, if false, is also cause for termination under Sections 9.a and 9.c.

**b) Ethics**

i) In addition to the foregoing warranties and representations, Consultant warrants:

(1) no officer, agent or employee of the County is employed by Consultant or has a financial interest directly or indirectly in this Agreement or the compensation to be paid under this Agreement except as may be permitted in writing by the Board of Ethics.

(2) no payment, gratuity or offer of employment will be made in connection with this Agreement by or on behalf of any Subcontractors to the prime Consultant or higher tier Subcontractors or anyone associated with them, as an inducement for the award of a subcontract or order.

**c) Joint and Several Liability**

If Consultant, or its successors or assigns, if any, is comprised of more than one individual or other legal entity (or a combination of them), then under this Agreement, each and without limitation every obligation or undertaking in this Agreement to be fulfilled or performed by Consultant is the joint and several obligation or undertaking of each such individual or other legal entity.

**d) Business Documents**

At the request of the County, Consultant must provide copies of its latest articles of incorporation, by-laws and resolutions, or partnership or joint venture agreement, as applicable.

**e) Conflicts of Interest**

i) No member of the governing body of the County or other unit of government and no other officer, employee or agent of the County or other unit of government who exercises any functions or responsibilities in connection with the Services to which this Agreement pertains is

permitted to have any personal interest, direct or indirect, in this Agreement. No member of or delegate to the Congress of the United States or the Illinois General Assembly and no Commissioner of the Cook County Board or County employee is allowed to be admitted to any share or part of this Agreement or to any financial benefit to arise from it.

ii) Consultant covenants that it, and to the best of its knowledge, its Subcontractors if any (collectively, "**Consulting Parties**"), presently have no direct or indirect interest and will not acquire any interest, direct or indirect, in any project or contract that would conflict in any manner or degree with the performance of its Services under this Agreement.

iii) Upon the request of the County, Consultant must disclose to the County its past client list and the names of any clients with whom it has an ongoing relationship. Consultant is not permitted to perform any Services for the County on applications or other documents submitted to the County by any of Consultant's past or present clients. If Consultant becomes aware of a conflict, it must immediately stop work on the assignment causing the conflict and notify the County.

iv) Without limiting the foregoing, if the Consulting Parties assist the County in determining the advisability or feasibility of a project or in recommending, researching, preparing, drafting or issuing a request for proposals or bid specifications for a project, the Consulting Parties must not participate, directly or indirectly, as a prime, subcontractor or joint venturer in that project or in the preparation of a proposal or bid for that project during the term of this Agreement or afterwards. The Consulting Parties may, however, assist the County in reviewing the proposals or bids for the project if none of the Consulting Parties have a relationship with the persons or entities that submitted the proposals or bids for that project.

v) The Consultant further covenants that, in the performance of this Agreement, no person having any conflicting interest will be assigned to perform any Services or have access to any confidential information, as defined in Section 3.11 of this Agreement. If the County, by the Chief Procurement Officer in his reasonable judgment, determines that any of Consultant's Services for others conflict with the Services Consultant is to render for the County under this Agreement, Consultant must terminate such other services immediately upon request of the County.

vi) Furthermore, if any federal funds are to be used to compensate or reimburse Consultant under this Agreement, Consultant represents that it is and will remain in compliance with federal restrictions on lobbying set forth in Section 319 of the Department of the Interior and Related Agencies Appropriations Act for Fiscal year 1990, 31 U.S.C. § 1352, and related rules and regulations set forth at 54 Fed. Reg. 52,309 ff. (1989), as amended. If federal funds are to be used, Consultant must execute a Certification Regarding Lobbying, which will be attached as an exhibit and incorporated by reference as if fully set forth here.

f) **Non-Liability of Public Officials**

Consultant and any assignee or Subcontractor of Consultant must not charge any official, employee or agent of the County personally with any liability or expenses of defense or hold any official, employee or agent of the County personally liable to them under any term or provision of this Agreement or because of the County's execution, attempted execution or any breach of this Agreement.

## **ARTICLE 9) EVENTS OF DEFAULT, REMEDIES, TERMINATION, SUSPENSION AND RIGHT TO OFFSET**

### **a) Events of Default Defined**

The following constitute events of default:

- i) Any material misrepresentation, whether negligent or willful and whether in the inducement or in the performance, made by Consultant to the County.
- ii) Consultant's material failure to perform any of its obligations under this Agreement including the following:
  - (a) Failure due to a reason or circumstances within Consultant's reasonable control to perform the Services with sufficient personnel and equipment or with sufficient material to ensure the performance of the Services;
  - (b) Failure to perform the Services in a manner reasonably satisfactory to the Chief Procurement Officer or inability to perform the Services satisfactorily as a result of insolvency, filing for bankruptcy or assignment for the benefit of creditors;
  - (c) Failure to promptly re-perform within a reasonable time Services that were rejected as erroneous or unsatisfactory;
  - (d) Discontinuance of the Services for reasons within Consultant's reasonable control; and
  - (e) Failure to comply with any other material term of this Agreement, including the provisions concerning insurance and nondiscrimination.
- iii) Any change in ownership or control of Consultant without the prior written approval of the Chief Procurement Officer, which approval the Chief Procurement Officer will not unreasonably withhold.
- iv) Consultant's default under any other agreement it may presently have or may enter into with the County during the life of this Agreement. Consultant acknowledges and agrees that in the event of a default under this Agreement the County may also declare a default under any such other Agreements.

- (v) Failure to comply with Section 7a. in the performance of the Agreement.
- (vi) Consultant's repeated or continued violations of County ordinances unrelated to performance under the Agreement that in the opinion of the Chief Procurement Officer indicate a willful or reckless disregard for County laws and regulations.

**b) Remedies**

The occurrence of any event of default permits the County, at the County's sole option, to declare Consultant in default. The Chief Procurement Officer may in his sole discretion give Consultant an opportunity to cure the default within a certain period of time, which period of time must not exceed 30 days, unless extended by the Chief Procurement Officer. Whether to declare Consultant in default is within the sole discretion of the Chief Procurement Officer and neither that decision nor the factual basis for it is subject to review or challenge under the Disputes provision of this Agreement.

The Chief Procurement Officer will give Consultant written notice of the default, either in the form of a cure notice ("**Cure Notice**"), or, if no opportunity to cure will be granted, a default notice ("**Default Notice**"). If the Chief Procurement Officer gives a Default Notice, he will also indicate any present intent he may have to terminate this Agreement, and the decision to terminate (but not the decision not to terminate) is final and effective upon giving the notice. The Chief Procurement Officer may give a Default Notice if Consultant fails to effect a cure within the cure period given in a Cure Notice. When a Default Notice with intent to terminate is given as provided in this Section 9.b and Article 11, Consultant must discontinue any Services, unless otherwise directed in the notice, and deliver all materials accumulated in the performance of this Agreement, whether completed or in the process, to the County. After giving a Default Notice, the County may invoke any or all of the following remedies:

- i) The right to terminate this Agreement as to any or all of the Services yet to be performed effective at a time specified by the County;
- ii) The right to seek specific performance, an injunction or any other appropriate equitable remedy;
- iii) The right to seek money damages;
- iv) The right to withhold all or any part of Contractor's compensation under this Agreement;
- v) The right to consider Consultant non-responsible in future contracts to be awarded by the County

If the Chief Procurement Officer considers it to be in the County's best interests, he may elect not to declare default or to terminate this Agreement. The parties acknowledge that this

provision is solely for the benefit of the County and that if the County permits Consultant to continue to provide the Services despite one or more events of default, Consultant is in no way relieved of any of its responsibilities, duties or obligations under this Agreement, nor does the County waive or relinquish any of its rights.

The remedies under the terms of this Agreement, and available at law and equity to each party, are not intended to be exclusive of any other remedies provided, but each and every such remedy is cumulative and is in addition to any other remedies, existing now or later, at law, in equity or by statute. No delay or omission to exercise any right or power accruing upon any event of default impairs any such right or power, nor is it a waiver of any event of default nor acquiescence in it, and every such right and power may be exercised from time to time and as often as a party to this Contract considers expedient.

**c) Early Termination**

In addition to termination under Sections 9.a and 9.b of this Agreement, the County may terminate this Agreement, or all or any portion of the Services to be performed under it, at any time by a notice in writing from the County to Consultant. The County will give notice to Consultant in accordance with the provisions of Article 11. The effective date of termination will be the date the notice is received by Consultant or the date stated in the notice, whichever is later. If the County elects to terminate this Agreement in full, all Services to be provided under it must cease and all materials that may have been accumulated in performing this Agreement, whether completed or in the process, must be delivered to the County effective 10 days after the date the notice is considered received as provided under Article 11 of this Agreement (if no date is given) or upon the effective date stated in the notice.

After the notice is received, Consultant must restrict its activities, and those of its Subcontractors, to winding down any reports, analyses, or other activities previously begun. No costs incurred after the effective date of the termination are allowed. Payment for any Services actually and satisfactorily performed before the effective date of the termination is on the same basis as set forth in Article 5, but if any compensation is described or provided for on the basis of a period longer than 10 days, then the compensation must be prorated accordingly. No amount of compensation, however, is permitted for anticipated profits on unperformed Services. The County and Consultant must attempt to agree on the amount of compensation to be paid to Consultant, but if not agreed on, the dispute must be settled in accordance with Article 6 of this Agreement. The payment so made to Consultant is in full settlement for all Services satisfactorily performed under this Agreement.

Consultant must include in its contracts with Subcontractors an early termination provision in form and substance equivalent to this early termination provision to prevent claims against the County arising from termination of subcontracts after the early termination. Consultant will not be entitled to make any early termination claims against the County resulting from any Subcontractor's claims against Consultant or the County to the extent inconsistent with this provision.

If the County's election to terminate this Agreement for default under Sections 9.a and 9.b is determined in a court of competent jurisdiction to have been wrongful, then in that case the termination is to be considered to be an early termination under this Section 9.c.

Either Consultant or the County may terminate this Agreement following the initial one year term upon not less than thirty days' prior written notice to the other. An early termination fee will apply if the County chooses to end their service before completing the initial contract term, or if Consultant terminates it early for good cause. The early termination fees are:

During year 1: \$100 per activated devices.

During year 2: \$50 per activated devices.

During years 3-5 and beyond: no charge.

**d) Suspension**

The County may at any time request that Consultant suspend its Services, or any part of them, by giving 15 days prior written notice to Consultant or upon informal oral, or even no notice, in the event of emergency. No costs incurred after the effective date of such suspension are allowed. Consultant must promptly resume its performance of the Services under the same terms and conditions as stated in this Agreement upon written notice by the Chief Procurement Officer and such equitable extension of time as may be mutually agreed upon by the Chief Procurement Officer and Consultant when necessary for continuation or completion of Services. Any additional costs or expenses actually incurred by Consultant as a result of recommencing the Services must be treated in accordance with the compensation provisions under Article 5 of this Agreement.

No suspension of this Agreement is permitted in the aggregate to exceed a period of 45 days within any one year of this Agreement. If the total number of days of suspension exceeds 45 days, Consultant by written notice may treat the suspension as an early termination of this Agreement under Section 9.3.

**e) Right to Offset**

i) In connection with performance under this Agreement:

The County may offset any excess costs incurred:

(i) if the County terminates this Agreement for default or any other reason resulting from Consultant's performance or non-performance;

(ii) if the County exercises any of its remedies under Section 9.2 of this Agreement; or

(iii) if the County has any credits due or has made any overpayments under this Agreement.

The County may offset these excess costs by use of any payment due for Services completed before the County terminated this Agreement or before the County exercised any remedies. If the amount offset is insufficient to cover those excess costs, Consultant is liable for and must promptly remit to the County the balance upon written demand for it. This right to offset is in addition to and not a limitation of any other remedies available to the County.

**f.) Delays**

Consultant agrees that no charges or claims for damages shall be made by Consultant for any delays or hindrances from any cause whatsoever during the progress of any portion of this Contract.

**g.) Prepaid Fees**

In the event this Contract is terminated by either party, for cause or otherwise, and the County has prepaid for any Deliverables, Consultant shall refund to the County, on a prorated basis to the effective date of termination, all amounts prepaid for Deliverables not actually provided as of the effective date of the termination. The refund shall be made within fourteen (14) days of the effective date of termination.

**ARTICLE 10) GENERAL CONDITIONS**

**a) Entire Agreement**

**i) General**

This Agreement, and the exhibits attached to it and incorporated in it, constitute the entire agreement between the parties and no other warranties, inducements, considerations, promises or interpretations are implied or impressed upon this Agreement that are not expressly addressed in this Agreement.

**ii) No Collateral Agreements**

Consultant acknowledges that, except only for those representations, statements or promises expressly contained in this Agreement and any exhibits attached to it and incorporated by reference in it, no representation, statement or promise, oral or in writing, of any kind whatsoever, by the County, its officials, agents or employees, has induced Consultant to enter into this Agreement or has been relied upon by Consultant, including any with reference to: (i) the meaning, correctness, suitability or completeness of any provisions or requirements of this Agreement; (ii) the nature of the Services to be performed; (iii) the nature, quantity, quality or volume of any materials, equipment, labor and other facilities needed for the performance of this Agreement; (iv) the general conditions which may in any way affect this Agreement or its performance; (v) the compensation provisions of this Agreement; or (vi) any other matters,

whether similar to or different from those referred to in (i) through (vi) immediately above, affecting or having any connection with this Agreement, its negotiation, any discussions of its performance or those employed or connected or concerned with it.

iii) **No Omissions**

Consultant acknowledges that Consultant was given an opportunity to review all documents forming this Agreement before signing this Agreement in order that it might request inclusion in this Agreement of any statement, representation, promise or provision that it desired or on that it wished to place reliance. Consultant did so review those documents, and either every such statement, representation, promise or provision has been included in this Agreement or else, if omitted, Consultant relinquishes the benefit of any such omitted statement, representation, promise or provision and is willing to perform this Agreement in its entirety without claiming reliance on it or making any other claim on account of its omission.

b) **Counterparts**

This Agreement is comprised of several identical counterparts, each to be fully signed by the parties and each to be considered an original having identical legal effect.

c) **Modifications and Amendments**

The parties may during the term of the Contract make modifications and amendments to the Contract but only as provided in this section. Such modifications and amendments shall only be made by mutual agreement in writing.

Pursuant to Cook County Ordinance, Article IV, Section 34-123, the Chief Procurement Officer may amend a contract provided that any such amendment does not extend the Contract by more than one (1) year, and further provided that the total cost of all such amendments does not increase the original amount of the Contract beyond \$150,000. Such action may only be made with the advance written approval of the Chief Procurement Officer. If the amendment extends the Contract beyond one (1) year or increases the total award amount by more than \$150,000, then Board approval will be required.

No County department or employee thereof has authority to make any modifications or amendments to this Contract. Any modifications or amendments to this Contract made without the express written approval of the Chief Procurement Officer are void and unenforceable.

Consultant is hereby notified that, except for modifications and amendments which are made in accordance with this Section 10.c., Modifications and Amendments, no County department or employee thereof has authority to make any modification or amendment to this Contract.

d) **Governing Law and Jurisdiction**

This Contract shall be governed by and construed under the laws of the State of Illinois. The

Consultant irrevocably agrees that, subject to the County's sole and absolute election to the contrary, any action or proceeding in any way, manner or respect arising out of the Contract, or arising from any dispute or controversy arising in connection with or related to the Contract, shall be litigated only in courts within the Circuit Court of Cook County, State of Illinois, and the Consultant consents and submits to the jurisdiction thereof. In accordance with these provisions, Consultant waives any right it may have to transfer or change the venue of any litigation brought against it by the County pursuant to this Contract.

**e) Severability**

If any provision of this Agreement is held or considered to be or is in fact invalid, illegal, inoperative or unenforceable as applied in any particular case in any jurisdiction or in all cases because it conflicts with any other provision or provisions of this Agreement or of any constitution, statute, ordinance, rule of law or public policy, or for any other reason, those circumstances do not have the effect of rendering the provision in question invalid, illegal, inoperative or unenforceable in any other case or circumstances, or of rendering any other provision or provisions in this Agreement invalid, illegal, inoperative or unenforceable to any extent whatsoever. The invalidity, illegality, inoperativeness or unenforceability of any one or more phrases, sentences, clauses or sections in this Agreement does not affect the remaining portions of this Agreement or any part of it.

**f) Assigns**

All of the terms and conditions of this Agreement are binding upon and inure to the benefit of the parties and their respective legal representatives, successors and assigns.

**g) Cooperation**

Consultant must at all times cooperate fully with the County and act in the County's best interests. If this Agreement is terminated for any reason, or if it is to expire on its own terms, Consultant must make every effort to assure an orderly transition to another provider of the Services, if any, orderly demobilization of its own operations in connection with the Services, uninterrupted provision of Services during any transition period and must otherwise comply with the reasonable requests and requirements of the Department in connection with the termination or expiration.

**h) Waiver**

Nothing in this Agreement authorizes the waiver of a requirement or condition contrary to law or ordinance or that would result in or promote the violation of any federal, state or local law or ordinance.

Whenever under this Agreement the County by a proper authority waives Consultant's performance in any respect or waives a requirement or condition to either the County's or Consultant's performance, the waiver so granted, whether express or implied, only applies to the

particular instance and is not a waiver forever or for subsequent instances of the performance, requirement or condition. No such waiver is a modification of this Agreement regardless of the number of times the County may have waived the performance, requirement or condition. Such waivers must be provided to Consultant in writing.

**i) Independent Contractor**

This Agreement is not intended to and will not constitute, create, give rise to, or otherwise recognize a joint venture, partnership, corporation or other formal business association or organization of any kind between Consultant and the County. The rights and the obligations of the parties are only those expressly set forth in this Agreement. Consultant must perform under this Agreement as an independent contractor and not as a representative, employee, agent, or partner of the County.

This Agreement is between the County and an independent contractor and, if Consultant is an individual, nothing provided for under this Agreement constitutes or implies an employer-employee relationship such that:

i) The County will not be liable under or by reason of this Agreement for the payment of any compensation award or damages in connection with the Consultant performing the Services required under this Agreement.

ii) Consultant is not entitled to membership in the County Pension Fund, Group Medical Insurance Program, Group Dental Program, Group Vision Care, Group Life Insurance Program, Deferred Income Program, vacation, sick leave, extended sick leave, or any other benefits ordinarily provided to individuals employed and paid through the regular payrolls of the County.

iii) The County is not required to deduct or withhold any taxes, FICA or other deductions from any compensation provided to the Consultant.

**j) Governmental Joint Purchasing Agreement**

Pursuant to Section 4 of the Illinois Governmental Joint Purchasing Act (30 ILCS 525) and the Joint Purchase Agreement approved by the Cook County Board of Commissioners (April 9, 1965), other units of government may purchase goods or services under this Contract.

**ARTICLE 11) NOTICES**

All notices required pursuant to this Contract shall be in writing and addressed to the parties at their respective addresses set forth below. All such notices shall be deemed duly given if hand delivered or if deposited in the United States mail, postage prepaid, registered or certified, return receipt requested. Notice as provided herein does not waive service of summons or process.

If to the County: Cook County Bureau of Technology  
69 W. Washington St., Suite 2700  
Chicago, Illinois 60602  
Attention: Chief Information Officer

and

Cook County Chief Procurement Officer  
118 North Clark Street. Room 1018  
Chicago, Illinois 60602  
(Include County Contract Number on all notices)

If to Consultant: Radio Satellite Integrators, Inc.  
19144 Van Ness Ave  
Torrance, CA 90501  
Attention: Mr. Jonathan Michels

Changes in these addresses must be in writing and delivered in accordance with the provisions of this Article 11. Notices delivered by mail are considered received three days after mailing in accordance with this Article 11. Notices delivered personally are considered effective upon receipt. Refusal to accept delivery has the same effect as receipt.

## **ARTICLE 12) AUTHORITY**

Execution of this Agreement by Consultant is authorized by a resolution of its Board of Directors, if a corporation, or similar governing document, and the signature(s) of each person signing on behalf of Consultant have been made with complete and full authority to commit Consultant to all terms and conditions of this Agreement, including each and every representation, certification and warranty contained in it, including the representations, certifications and warranties collectively incorporated by reference in it.

**ECONOMIC DISCLOSURE STATEMENT  
AND EXECUTION DOCUMENT  
INDEX**

<b>Section</b>	<b>Description</b>	<b>Pages</b>
Instructions	Instructions for Completion of EDS	EDS I - II
1	MBE/WBE Utilization Plan	EDS 1
2	Letter of Intent	EDS 2
3	Petition for Reduction/Waiver of MBE/WBE Participation Goals	EDS 3
4	Certifications	EDS 4, 5
5	Economic and Other Disclosures, Affidavit of Chld Support Obligations and Disclosure of Ownership Interest	EDS 6 – 12
6	Sole Proprietor Signature Page	EDS 13a/b/c
7	Partnership Signature Page	EDS 14/a/b/c
8	Limited Liability Corporation Signature Page	EDS 15a/b/c
9	Corporation Signature Page	EDS 16a/b/c
10	Cook County Signature Page	EDS 17

**INSTRUCTIONS FOR COMPLETION OF  
ECONOMIC DISCLOSURE STATEMENT AND EXECUTION DOCUMENT**

This Economic Disclosure Statement and Execution Document ("EDS") is to be completed and executed by every Bidder on a County contract, every party responding to a Request for Proposals or Request for Qualifications ("Proposer"), and others as required by the Chief Procurement Officer. If the Undersigned is awarded a contract pursuant to the procurement process for which this EDS was submitted (the "Contract"), this Economic Disclosure Statement and Execution Document shall stand as the Undersigned's execution of the Contract.

**Definitions.** Capitalized terms used in this EDS and not otherwise defined herein shall have the meanings given to such terms in the instructions to Bidders, General Conditions, Request for Proposals, Request for Qualifications, or other documents, as applicable.

**"Affiliated Entity"** means a person or entity that, directly or indirectly, controls the Bidder, is controlled by the Bidder, or is, with the Bidder, under common control of another person or entity. Indicia of control include, without limitation, interlocking management or ownership; identity of interests among family members; shared facilities and equipment; common use of employees; and organization of a business entity following the ineligibility of a business entity to do business with the County under the standards set forth in the Certifications included in this EDS, using substantially the same management, ownership or principals as the ineligible entity.

**"Bidder," "Proposer," "Undersigned," or "Applicant,"** is the person or entity executing this EDS. Upon award and execution of a Contract by the County, the Bidder, Proposer, Undersigned or Applicant, as the case may be, shall become the Contractor or Contracting Party.

**"Proposal,"** for purposes of this EDS, is the Undersigned's complete response to an RFP/RFQ, or if no RFQ/RFP was issued by the County, the "Proposal" is such other proposal, quote or offer submitted by the Undersigned, and in any event a "Proposal" includes this EDS.

**"Code"** means the Code of Ordinances, Cook County, Illinois available through the Cook County Clerk's Office website (<http://www.cookctyclerk.com/sub/ordinances.asp>). This page can also be accessed by going to [www.cookctyclerk.com](http://www.cookctyclerk.com), clicking on the tab labeled "County Board Proceedings," and then clicking on the link to "Cook County Ordinances."

**"Contractor" or "Contracting Party"** means the Bidder, Proposer or Applicant with whom the County has entered into a Contract.

**"EDS"** means this complete Economic Disclosure Statement and Execution Document, including all sections listed in the Index and any attachments.

**"Lobby" or "lobbying"** means to, for compensation, attempt to influence a County official or County employee with respect to any County matter.

**"Lobbyist"** means any person or entity who lobbies.

**"Prohibited Acts"** means any of the actions or occurrences which form the basis for disqualification under the Code, or under the Certifications hereinafter set forth.

**Sections 1 through 3: MBE/WBE Documentation.** Sections 1 and 2 must be completed in order to satisfy the requirements of the County's MBE/WBE Ordinance, as set forth in the Contract Documents, if applicable. If the Undersigned believes a waiver is appropriate and necessary, Section 3, the Petition for Waiver of MBE/WBE Participation must be completed.

**Section 4: Certifications.** Section 4 sets forth certifications that are required for contracting parties under the Code. Execution of this EDS constitutes a warranty that all the statements and certifications contained, and all the facts stated, in the Certifications are true, correct and complete as of the date of execution.

**Section 5: Economic and Other Disclosures Statement.** Section 5 is the County's required Economic and Other Disclosures Statement form. Execution of this EDS constitutes a warranty that all the information provided in the EDS is true, correct and complete as of the date of execution, and binds the Undersigned to the warranties, representations, agreements and acknowledgements contained therein.

**INSTRUCTIONS FOR COMPLETION OF  
ECONOMIC DISCLOSURE STATEMENT AND EXECUTION DOCUMENT**

**Sections 6, 7, 8, 9: Execution Forms.** The Bidder executes this EDS, and the Contract, by completing and signing three copies of the appropriate Signature Page. Section 6 is the form for a sole proprietor; Section 7 is the form for a partnership or joint venture; Section 8 is the form for a Limited Liability Corporation, and Section 9 is the form for a corporation. Proper execution requires **THREE ORIGINALS**; therefore, the appropriate Signature Page must be filled in, three copies made, and all three copies must be properly signed, notarized and submitted. The forms may be printed and completed by typing or hand writing the information required.

**Required Updates.** The information provided in this EDS will be kept current. In the event of any change in any information provided, including but not limited to any change which would render inaccurate or incomplete any certification or statement made in this EDS, the Undersigned will supplement this EDS up to the time the County takes action, by filing an amended EDS or such other documentation as is requested.

**Additional Information.** The County's Governmental Ethics and Campaign Financing Ordinances, impose certain duties and obligations on persons or entities seeking County contracts, work, business, or transactions. For further information please contact the Director of Ethics at (312) 603-4304 (69 W. Washington St. Suite 3040, Chicago, IL 60602) or visit our web-site at [www.cookcountygov.com](http://www.cookcountygov.com) and go to the Ethics Department link. The Bidder must comply fully with the applicable ordinances.

**MBE/WBE UTILIZATION PLAN (SECTION 1)**

BIDDER/PROPOSER HEREBY STATES that all MBE/WBE firms included in this Plan are certified MBEs/WBEs by at least one of the entities listed in the General Conditions.

**I. BIDDER/PROPOSER MBE/WBE STATUS: (check the appropriate line)**

- Bidder/Proposer is a certified MBE or WBE firm. (If so, attach copy of appropriate Letter of Certification)
- Bidder/Proposer is a Joint Venture and one or more Joint Venture partners are certified MBEs or WBEs. (If so, attach copies of Letter(s) of Certification, a copy of Joint Venture Agreement clearly describing the role of the MBE/WBE firm(s) and its ownership interest in the Joint Venture and a completed Joint Venture Affidavit - available from the Office of Contract Compliance)
- Bidder/Proposer is not a certified MBE or WBE firm, nor a Joint Venture with MBE/WBE partners, but will utilize MBE and WBE firms either directly or indirectly in the performance of the Contract. (If so, complete Sections II and III).

**II.  Direct Participation of MBE/WBE Firms       Indirect Participation of MBE/WBE Firms**

Where goals have not been achieved through direct participation, Bidder/Proposer shall include documentation outlining efforts to achieve Direct Participation at the time of Bid/Proposal submission. Indirect Participation will only be considered after all efforts to achieve Direct Participation have been exhausted. Only after written documentation of Good Faith Efforts is received will Indirect Participation be considered.

MBEs/WBEs that will perform as subcontractors/suppliers/consultants include the following:

MBE/WBE Firm: Trinity Technology Services, Inc

Address: 539 West Taft Drive, South Holland, IL 60473

E-mail: gkinnison@trinitytechservices.com

Contact Person: George Kimmison Phone: 708-207-7157

Dollar Amount Participation: \$ 125 per installation

Percent Amount of Participation: Approx 34.75% of start up costs %

\*Letter of Intent attached? Yes X No \_\_\_\_\_

\*Letter of Certification attached? Yes X No \_\_\_\_\_

MBE/WBE Firm: \_\_\_\_\_

Address: \_\_\_\_\_

E-mail: \_\_\_\_\_

Contact Person: \_\_\_\_\_ Phone: \_\_\_\_\_

Dollar Amount Participation: \$ \_\_\_\_\_

Percent Amount of Participation: \_\_\_\_\_ %

\*Letter of Intent attached? Yes \_\_\_\_\_ No \_\_\_\_\_

\*Letter of Certification attached? Yes \_\_\_\_\_ No \_\_\_\_\_

Attach additional sheets as needed.

**\*Additionally, all Letters of Intent, Letters of Certification and documentation of Good Faith Efforts omitted from this bid/proposal must be submitted to the Office of Contract Compliance so as to assure receipt by the Contract Compliance Administrator not later than three (3) business days after the Bid Opening date.**

**COOK COUNTY GOVERNMENT LETTER OF INTENT (SECTION 2)**

MWBE Firm: Trinity Technology Services Inc.  
Address: 539 W. Taft Dr.  
City/State: South Holland Zip 60473  
Phone: 877-589-9847 Fax: 708-596-1020  
Email: Gkinnison@trinitytechservices.com

Certifying Agency: Cook County Government  
Certification Expiration Date: Nov. 7, 2014  
FEIN #: 13-4243734  
Contact Person: George Kinnison  
Contract #: \_\_\_\_\_

Participation:  Direct  Indirect

Will the MWBE firm be subcontracting any of the performance of this contract to another firm?

No  Yes - Please attach explanation. Proposed Subcontractor: \_\_\_\_\_

The undersigned MWBE is prepared to provide the following Commodities/Services for the above named Project/ Contract:  
**AVL System Unit installation**

Indicate the Dollar Amount, or Percentage, and the Terms of Payment for the above-described Commodities/ Services:

*(If more space is needed to fully describe MWBE Firm's proposed scope of work and/or payment schedule, attach additional sheets)*

THE UNDERSIGNED PARTIES AGREE that this Letter of intent will become a binding Subcontract Agreement conditioned upon the Bidder/Proposer's receipt of a signed contract from the County of Cook. The Undersigned Parties do also certify that they did not affix their signatures to this document until all areas under Description of Service/ Supply and Fee/Cost were completed.

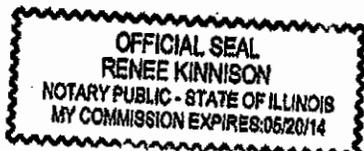
*George N. Kinnison*  
Signature (MWBE)  
George N Kinnison  
Print Name  
Trinity Technology Services Inc.  
Firm Name  
1-7-2014  
Date

*[Signature]*  
Signature (Prime Bidder/Proposer)  
Brett Lim  
Print Name  
Radio Satellite Integrators  
Firm Name  
1-6-2014 1-21-14  
Date

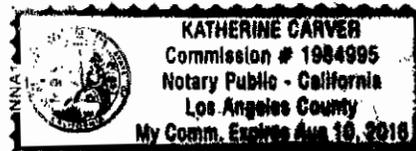
Subscribed and sworn before me  
this 7<sup>th</sup> day of January, 2014  
Notary Public *[Signature]*

Subscribed and sworn before me  
this 21<sup>st</sup> day of January, 2014  
Notary Public *[Signature]*

SEAL



SEAL



**PETITION FOR WAIVER OF MBE/WBE PARTICIPATION (SECTION 3)**

**A. BIDDER/PROPOSER HEREBY REQUESTS:**

- FULL MBE WAIVER                       FULL WBE WAIVER
- REDUCTION (PARTIAL MBE and/or WBE PARTICIPATION)

TBD    % of Reduction for MBE Participation  
\_\_\_\_\_ % of Reduction for WBE Participation

**B. REASON FOR FULL/REDUCTION WAIVER REQUEST**

Bidder/Proposer shall check each item applicable to its reason for a waiver request. Additionally, supporting documentation shall be submitted with this request. If such supporting documentation cannot be submitted with bid/proposal/quotation, such documentation shall be submitted directly to the Office of Contract Compliance no later than three (3) days from the date of submission date.

- (1) Lack of sufficient qualified MBEs and/or WBEs capable of providing the goods or services required by the contract. (Please explain)
- (2) The specifications and necessary requirements for performing the contract make it impossible or economically infeasible to divide the contract to enable the contractor to utilize MBEs and/or WBEs in accordance with the applicable participation. (Please explain) only installation can be subcontracted
- (3) Price(s) quoted by potential MBEs and/or WBEs are above competitive levels and increase cost of doing business and would make acceptance of such MBE and/or WBE bid economically impracticable, taking into consideration the percentage of total contract price represented by such MBE and/or WBE bid. (Please explain)
- (4) There are other relevant factors making it impossible or economically infeasible to utilize MBE and/or WBE firms. (Please explain)

**C. GOOD FAITH EFFORTS TO OBTAIN MBE/WBE PARTICIPATION**

- (1) Made timely written solicitation to identified MBEs and WBEs for utilization of goods and/or services; and provided MBEs and WBEs with a timely opportunity to review and obtain relevant specifications, terms and conditions of the proposal to enable MBEs and WBEs to prepare an informed response to solicitation. (Please attach)
- (2) Followed up initial solicitation of MBEs and WBEs to determine if firms are interested in doing business. (Please attach)
- (3) Advertised in a timely manner in one or more daily newspapers and/or trade publication for MBEs and WBEs for supply of goods and services. (Please attach)
- (4) Used the services and assistance of the Office of Contract Compliance staff. (Please explain)
- (5) Engaged MBEs & WBEs for indirect participation. (Please explain)

**D. OTHER RELEVANT INFORMATION**

Attach any other documentation relative to Good Faith Efforts in complying with MBE/WBE participation.

## CERTIFICATIONS (SECTION 4)

THE FOLLOWING CERTIFICATIONS ARE MADE PURSUANT TO STATE LAW AND THE CODE. THE UNDERSIGNED IS CAUTIONED TO CAREFULLY READ THESE CERTIFICATIONS PRIOR TO SIGNING THE SIGNATURE PAGE. SIGNING THE SIGNATURE PAGE SHALL CONSTITUTE A WARRANTY BY THE UNDERSIGNED THAT ALL THE STATEMENTS, CERTIFICATIONS AND INFORMATION SET FORTH WITHIN THESE CERTIFICATIONS ARE TRUE, COMPLETE AND CORRECT AS OF THE DATE THE SIGNATURE PAGE IS SIGNED. THE UNDERSIGNED IS NOTIFIED THAT IF THE COUNTY LEARNS THAT ANY OF THE FOLLOWING CERTIFICATIONS WERE FALSELY MADE, THAT ANY CONTRACT ENTERED INTO WITH THE UNDERSIGNED SHALL BE SUBJECT TO TERMINATION.

### **A. PERSONS AND ENTITIES SUBJECT TO DISQUALIFICATION**

No person or business entity shall be awarded a contract or sub-contract, for a period of five (5) years from the date of conviction or entry of a plea or admission of guilt, civil or criminal, if that person or business entity:

- 1) Has been convicted of an act committed, within the State of Illinois, of bribery or attempting to bribe an officer or employee of a unit of state, federal or local government or school district in the State of Illinois in that officer's or employee's official capacity;
- 2) Has been convicted by federal, state or local government of an act of bid-rigging or attempting to rig bids as defined in the Sherman Anti-Trust Act and Clayton Act. Act. 15 U.S.C. Section 1 *et seq.*;
- 3) Has been convicted of bid-rigging or attempting to rig bids under the laws of federal, state or local government;
- 4) Has been convicted of an act committed, within the State, of price-fixing or attempting to fix prices as defined by the Sherman Anti-Trust Act and the Clayton Act. 15 U.S.C. Section 1, *et seq.*;
- 5) Has been convicted of price-fixing or attempting to fix prices under the laws the State;
- 6) Has been convicted of defrauding or attempting to defraud any unit of state or local government or school district within the State of Illinois;
- 7) Has made an admission of guilt of such conduct as set forth in subsections (1) through (6) above which admission is a matter of record, whether or not such person or business entity was subject to prosecution for the offense or offenses admitted to; or
- 8) Has entered a plea of *nolo contendere* to charge of bribery, price-fixing, bid-rigging, or fraud, as set forth in sub-paragraphs (1) through (6) above.

In the case of bribery or attempting to bribe, a business entity may not be awarded a contract if an official, agent or employee of such business entity committed the Prohibited Act on behalf of the business entity and pursuant to the direction or authorization of an officer, director or other responsible official of the business entity, and such Prohibited Act occurred within three years prior to the award of the contract. In addition, a business entity shall be disqualified if an owner, partner or shareholder controlling, directly or indirectly, 20 % or more of the business entity, or an officer of the business entity has performed any Prohibited Act within five years prior to the award of the Contract.

**THE UNDERSIGNED HEREBY CERTIFIES THAT:** The Undersigned has read the provisions of Section A, Persons and Entities Subject to Disqualification, that the Undersigned has not committed any Prohibited Act set forth in Section A, and that award of the Contract to the Undersigned would not violate the provisions of such Section or of the Code.

### **B. BID-RIGGING OR BID ROTATING**

**THE UNDERSIGNED HEREBY CERTIFIES THAT:** *In accordance with 720 ILCS 5/33 E-11, neither the Undersigned nor any Affiliated Entity is barred from award of this Contract as a result of a conviction for the violation of State laws prohibiting bid-rigging or bid rotating.*

### **C. DRUG FREE WORKPLACE ACT**

**THE UNDERSIGNED HEREBY CERTIFIES THAT:** The Undersigned will provide a drug free workplace, as required by Public Act 86-1459 (30 ILCS 580/2-11).

**D. DELINQUENCY IN PAYMENT OF TAXES**

**THE UNDERSIGNED HEREBY CERTIFIES THAT:** *The Undersigned is not an owner or a party responsible for the payment of any tax or fee administered by Cook County, by a local municipality, or by the Illinois Department of Revenue, which such tax or fee is delinquent, such as bar award of a contract or subcontract pursuant to the Code, Chapter 34, Section 34-129.*

**E. HUMAN RIGHTS ORDINANCE**

No person who is a party to a contract with Cook County ("County") shall engage in unlawful discrimination or sexual harassment against any individual in the terms or conditions of employment, credit, public accommodations, housing, or provision of County facilities, services or programs (Code Chapter 42, Section 42-30 et seq).

**F. ILLINOIS HUMAN RIGHTS ACT**

**THE UNDERSIGNED HEREBY CERTIFIES THAT:** *It is in compliance with the the Illinois Human Rights Act (775 ILCS 5/2-105), and agrees to abide by the requirements of the Act as part of its contractual obligations.*

**G. MACBRIDE PRINCIPLES, CODE CHAPTER 34, SECTION 34-132**

If the primary contractor currently conducts business operations in Northern Ireland, or will conduct business during the projected duration of a County contract, the primary contractor shall make all reasonable and good faith efforts to conduct any such business operations in Northern Ireland in accordance with the MacBride Principles for Northern Ireland as defined in Illinois Public Act 85-1390.

**H. LIVING WAGE ORDINANCE PREFERENCE (COOK COUNTY CODE, CHAPTER 34, SECTION 34-127;**

The Code requires that a living wage must be paid to individuals employed by a Contractor which has a County Contract and by all subcontractors of such Contractor under a County Contract, throughout the duration of such County Contract. The amount of such living wage is determined from time to time by, and is available from, the Chief Financial Officer of the County.

For purposes of this EDS Section 4, H, "Contract" means any written agreement whereby the County is committed to or does expend funds in connection with the agreement or subcontract thereof. The term "Contract" as used in this EDS, Section 4, I, specifically excludes contracts with the following:

- 1) Not-For Profit Organizations (defined as a corporation having tax exempt status under Section 501(C)(3) of the United State Internal Revenue Code and recognized under the Illinois State not-for-profit law);
- 2) Community Development Block Grants;
- 3) Cook County Works Department;
- 4) Sheriff's Work Alternative Program; and
- 5) Department of Correction Inmates.

**REQUIRED DISCLOSURES (SECTION 5)**

**1. DISCLOSURE OF LOBBYIST CONTACTS**

List all persons or entities that have made lobbying contacts on your behalf with respect to this contract:

Name	Address
None	

**2. LOCAL BUSINESS PREFERENCE DISCLOSURE; CODE, CHAPTER 34, SECTION 34-151(p);**

"Local Business" shall mean a person authorized to transact business in this State and having a bona fide establishment for transacting business located within Cook County at which it was actually transacting business on the date when any competitive solicitation for a public contract is first advertised or announced and further which employs the majority of its regular, full time work force within Cook County, including a foreign corporation duly authorized to transact business in this State and which has a bona fide establishment for transacting business located within Cook County at which it was actually transacting business on the date when any competitive solicitation for a public contract is first advertised or announced and further which employs the majority of its regular, full time work force within Cook County.

a) Is Bidder a "Local Business" as defined above?

Yes: \_\_\_\_\_ No: X

b) If yes, list business addresses within Cook County:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

c) Does Bidder employ the majority of its regular full-time workforce within Cook County?

Yes: \_\_\_\_\_ No: X

**3. THE CHILD SUPPORT ENFORCEMENT ORDINANCE (PREFERENCE (CODE, CHAPTER 34, SECTION 34-366)**

Every Applicant for a County Privilege shall be in full compliance with any child support order before such Applicant is entitled to receive or renew a County Privilege. When delinquent child support exists, the County shall not issue or renew any County Privilege, and may revoke any County Privilege.

All Applicants are required to review the Cook County Affidavit of Child Support Obligations attached to this EDS (EDS-8) and complete the following, based upon the definitions and other information included in each Affidavit.

**4. REAL ESTATE OWNERSHIP DISCLOSURES.**

The Undersigned must indicate by checking the appropriate provision below and providing all required information that either:

- a) The following is a complete list of all real estate owned by the Undersigned in Cook County:

PERMANENT INDEX NUMBER(S): \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
**(ATTACH SHEET IF NECESSARY TO LIST ADDITIONAL INDEX NUMBERS)**

OR:

- b)  The Undersigned owns no real estate in Cook County.

**5. EXCEPTIONS TO CERTIFICATIONS OR DISCLOSURES.**

If the Undersigned is unable to certify to any of the Certifications or any other statements contained in this EDS and not explained elsewhere in this EDS, the Undersigned must explain below:

\_\_\_\_\_  
\_\_\_\_\_

If the letters, "NA", the word "None" or "No Response" appears above, or if the space is left blank, it will be conclusively presumed that the Undersigned certified to all Certifications and other statements contained in this EDS.

# COOK COUNTY DISCLOSURE OF OWNERSHIP INTEREST STATEMENT

The Cook County Code of Ordinances (§2-610 et seq.) requires that any Applicant for any County Action must disclose information concerning ownership interests in the Applicant. This Disclosure of Ownership Interest Statement must be completed with all information current as of the date this Statement is signed. Furthermore, this Statement must be kept current, by filing an amended Statement, until such time as the County Board or County Agency shall take action on the application. The information contained in this Statement will be maintained in a database and made available for public viewing.

If you are asked to list names, but there are no applicable names to list, you must state NONE. An incomplete Statement will be returned and any action regarding this contract will be delayed. A failure to fully comply with the ordinance may result in the action taken by the County Board or County Agency being voided.

"Applicant" means any Entity or person making an application to the County for any County Action.

"County Action" means any action by a County Agency, a County Department, or the County Board regarding an ordinance or ordinance amendment, a County Board approval, or other County agency approval, with respect to contracts, leases, or sale or purchase of real estate.

"Entity" or "Legal Entity" means a sole proprietorship, corporation, partnership, association, business trust, estate, two or more persons having a joint or common interest, trustee of a land trust, other commercial or legal entity or any beneficiary or beneficiaries thereof.

This Disclosure of Ownership Interest Statement must be submitted by :

1. An Applicant for County Action and
2. An individual or Legal Entity that holds stock or a beneficial interest in the Applicant and is listed on the Applicant's Statement (a "Holder") must file a Statement and complete #1 only under **Ownership Interest Declaration**.

Please print or type responses clearly and legibly. Add additional pages if needed, being careful to identify each portion of the form to which each additional page refers.

This Statement is being made by the  Applicant or  Stock/Beneficial Interest Holder

This Statement is on:  Original Statement or  Amended Statement

**Identifying Information:**

Name Radio Satellite Integrators D/B/A: \_\_\_\_\_ EIN NO.: 33-0477102

Street Address: 19144 Van Ness Ave

City: Torrance State: CA Zip Code: 90501

Phone No.: 310-787-7700

**Form of Legal Entity:**

Sole Proprietor  Partnership  Corporation  Trustee of Land Trust

Business Trust  Estate  Association  Joint Venture

Other (describe) \_\_\_\_\_

**Ownership Interest Declaration:**

1. List the name(s), address, and percent ownership of each individual and each Entity having a legal or beneficial interest (including ownership) of more than five percent (5%) in the Applicant/Holder.

Name	Address	Percentage Interest in Applicant/Holder
CalAmp Corp	1401 N. Rice Ave. Oxnard, CA 93030	100%

2. If the interest of any individual or any Entity listed in (1) above is held as an agent or agents, or a nominee or nominees, list the name and address of the principal on whose behalf the interest is held.

Name of Agent/Nominee	Name of Principal	Principal's Address

3. Is the Applicant constructively controlled by another person or Legal Entity? [ ] Yes [ ] No  
 If yes, state the name, address and percentage of beneficial interest of such person or legal entity, and the relationship under which such control is being or may be exercised.

Name	Address	Percentage of Beneficial Interest	Relationship

**Declaration (check the applicable box):**

- I state under oath that the Applicant has withheld no disclosure as to ownership interest in the Applicant nor reserved any information, data or plan as to the intended use or purpose for which the Applicant seeks County Board or other County Agency action.
- I state under oath that the Holder has withheld no disclosure as to ownership interest nor reserved any information required to be disclosed.

Brett Lim  
 Name of Authorized Applicant/Holder Representative (please print or type)

[Signature]  
 Signature

blim@radsat.com  
 E-mail address

Director of Marketing  
 Title

1-22-14  
 Date

310-787-7700  
 Phone Number

Subscribed to and sworn before me this 27<sup>th</sup> day of January 2014.

My commission expires: 8/10/16

x [Signature]  
 Notary Public Signature

Notary Seal





## COOK COUNTY BOARD OF ETHICS

69 W. WASHINGTON STREET, SUITE 3040

CHICAGO, ILLINOIS 60602

312/603-4304

312/603-9988 FAX 312/603-1011 TT/TDD

### **FAMILIAL RELATIONSHIP DISCLOSURE PROVISION:**

Section 2-582 of the Cook County Ethics Ordinance requires any person or persons doing business with Cook County, upon execution of a contract with Cook County, to disclose to the Cook County Board of Ethics the existence of familial relationships they may have with all persons holding elective office in the State of Illinois, the County of Cook, or in any municipality within the County of Cook.

The disclosure required by this section shall be filed by January 1 of each calendar year or within thirty (30) days of the execution of any contract or lease. Any person filing a late disclosure statement after January 31 shall be assessed a late filing fee of \$100.00 per day that the disclosure is late. Any person found guilty of violating any provision of this section or knowingly filing a false, misleading, or incomplete disclosure to the Cook County Board of Ethics shall be prohibited, for a period of three (3) years, from engaging, directly or indirectly, in any business with Cook County. *Note:* Please see Chapter 2 Administration, Article VII Ethics, Section 2-582 of the Cook County Code to view the full provisions of this section.

If you have questions concerning this disclosure requirement, please call the Cook County Board of Ethics at (312) 603-4304. *Note:* A current list of contractors doing business with Cook County is available via the Cook County Board of Ethics' website at [http://www.cookcountygov.com/taxonomy/ethics/Listings/cc\\_ethics\\_VendorList\\_.pdf](http://www.cookcountygov.com/taxonomy/ethics/Listings/cc_ethics_VendorList_.pdf)

### **DEFINITIONS:**

*"Calendar year"* means January 1 to December 31 of each year.

*"Doing business"* for this Ordinance provision means any one or any combination of leases, contracts, or purchases to or with Cook County or any Cook County agency in excess of \$25,000 in any calendar year.

*"Familial relationship"* means a person who is related to an official or employee as spouse or any of the following, whether by blood, marriage or adoption:

- |           |                   |                |
|-----------|-------------------|----------------|
| ▪ Parent  | ▪ Grandparent     | ▪ Stepfather   |
| ▪ Child   | ▪ Grandchild      | ▪ Stepmother   |
| ▪ Brother | ▪ Father-in-law   | ▪ Stepson      |
| ▪ Sister  | ▪ Mother-in-law   | ▪ Stepdaughter |
| ▪ Aunt    | ▪ Son-in-law      | ▪ Stepbrother  |
| ▪ Uncle   | ▪ Daughter-in-law | ▪ Stepsister   |
| ▪ Niece   | ▪ Brother-in-law  | ▪ Half-brother |
| ▪ Nephew  | ▪ Sister-in-law   | ▪ Half-sister  |

*"Person"* means any individual, entity, corporation, partnership, firm, association, union, trust, estate, as well as any parent or subsidiary of any of the foregoing, and whether or not operated for profit.

**SWORN FAMILIAL RELATIONSHIP DISCLOSURE FORM**

Pursuant to Section 2-582 of the Cook County Ethics Ordinance, any *person\* doing business\** with Cook County must disclose, to the Cook County Board of Ethics, the existence of *familial relationships\** to any person holding elective office in the State of Illinois, Cook County, or in any municipality within Cook County. Please print your responses.

Name of Owner/Employee: Brett Lim Title: Director of Marketing

Business Entity Name: Radio Satellite Integrators Phone: (310) 787-7700

Business Entity Address: 19144 Van Ness Ave, Torrance, CA 90501

       The following familial relationship exists between the owner or any employee of the business entity contracted to do business with Cook County *and* any person holding elective office in the State of Illinois, Cook County, or in any municipality within Cook County.

Owner/Employee Name:	Related to:	Relationship:
1. _____	_____	_____
2. _____	_____	_____
3. _____	_____	_____
4. _____	_____	_____
5. _____	_____	_____

If more space is needed, attach an additional sheet following the above format.

  X   There is *no* familial relationship that exists between the owner or any employee of the business entity contracted to do business with Cook County and any person holding elective office in the State of Illinois, Cook County, or in any municipality within Cook County.

**To the best of my knowledge and belief, the information provided above is true and complete.**

 Date 1-10-14  
Owner/Employee's Signature

Subscribe and sworn before me this 10th Day of January, 2014

a Notary Public in and for Los Angeles County

  
(Signature)



NOTARY PUBLIC  
SEAL

My Commission expires \_\_\_\_\_

Completed forms must be filed within 30 days of the execution of any contract or lease with Cook County and should be mailed to:

Cook County Board of Ethics  
69 West Washington Street,  
Suite 3040  
Chicago, Illinois 60602

**COOK COUNTY  
OFFICE OF THE CHIEF PROCUREMENT OFFICER  
CERTIFICATION FOR CONSULTING OR AUDITING SERVICES**

This Certification is made and required pursuant to Section 34-193 of the Procurement Code, and must be completed by any Contractor providing Consulting or Auditing Services for Cook County or Elected Officials. For purposes of this Certification, the following definitions shall apply:

"Auditing" means the formal examination of accounting records or financial statements for compliance with financial accounting standards applicable to governmental entities, which functions are generally exclusively performed or supervised by Persons licensed and authorized to do business as public accounts in the State. Auditing shall also include any independent reports and management recommendations derived or resulting from the performance of auditing services and which reports and recommendations are included within the scope of the Contract for Auditing Services.

"Consulting" means the rendering of analysis and advice requiring specialized expertise in a particular subject area or field. Such expertise may have been gained by education or experience in the area or field. Consulting expressly excludes auditing services.

"Elected Official" means the President and Commissioners of the Cook County Board, Assessor, Board of Review, Chief Judge, Clerk of the Circuit Court, County Clerk, Recorder of Deeds, Sheriff, State's Attorney, Treasurer and any other elected official included in the Cook County Appropriations Ordinance.

"County" shall mean the offices which are administered by the President of the County Board.

Please print or type responses clearly and legibly. Add additional pages if needed, being careful to identify each portion of the form to which each additional page refers to.

**SECTION 1: CONTRACTOR'S INFORMATION**

COMPANY NAME: Radio Satellite Integrators  
ADDRESS: 19144 Van Ness Ave Torrance, CA 90501  
TELEPHONE: 310-787-7700  
CONTACT NAME: Brett Lim  
CONTACT EMAIL: blime@radsat.com

**SECTION 2: AFFILIATE INFORMATION**

If the Contractor has any "Affiliates" please provide the names, addresses and telephone numbers of each Affiliate below. For purposes of this Certification "Affiliates" shall mean any Person that directly or indirectly through one or more intermediaries Controls, is Controlled by, or is under Control with the Person specified. "Control" shall mean a Person that has the power to directly or indirectly affect the management or the policies of the other through ownership of voting securities or voting rights, by contract or otherwise. "Person" means any individual, corporation, partnership, Joint Venture, trust, association, Limited Liability Company, sole proprietorship or other legal entity.

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**SECTION 3: CONTRACT INFORMATION**

- a. This Certification relates to the following Contract: Automatic Vehicle Location
- b. The Contractor is providing the following type of Services:  Auditing or  Consulting
- c. The Contractor is providing the Services under the Contract for the following Cook County Business Unit or Elected Official: GIS Dept.
- d. Is the Contractor or its Affiliates, if any, providing Consulting or Auditing Services, either directly, or as a subcontractor to the County or Elected Official under any other Contracts?  Yes or  No.  
If yes, please state the other Contract Number(s) and the Nature of Services.

**THE CONTRACTOR ACKNOWLEDGES, UNDERSTANDS AND AGREES AS FOLLOWS:**

- a. It has read Section 34-193 (a)-(b) of the Procurement Code, which provides as follows:

The County will not enter into any Contract for Auditing Services, nor shall it consent to a subcontract for such Auditing Services, with any Person, if such Person, or any Affiliate of such Person, has a Contract or subcontract for consulting services for or with the County. Additionally, the County will not enter into any Contract for Consulting Services, nor shall it consent to a subcontract for such Consulting Services, with any Person, if such Person, or any Affiliate of such Person, has a Contract or subcontract for Auditing Services for or with the County. For purposes of this provision, "County" shall refer only to offices which are administered by the President of the County Board and shall not refer to offices which are administered by Elected Officials.

The County shall not enter into any Contract for Consulting Services on behalf of any Elected Official, nor shall it consent to a subcontract for such Consulting Services on behalf of an Elected Official with any Person, if such Person, or any Affiliate of such Person, has a Contract or subcontract to provide Auditing Services for the Elected Official.

- b. The Contractor's Services under the Contract shall not violate Section 34-193 of the Procurement Code.
- c. The information provided herein is a material inducement to the CPO's execution of the Contract, and the CPO may rely on the information provided herein. The Contractor warrants that the information contained herein is true and correct. If the CPO determines that any information provided herein is false, incomplete, or incorrect, the CPO may terminate the Contract.

Signature

Brett Lim

Name (Type or Print)

Director of Marketing

Title

2/3/14  
Date

**SIGNATURE BY A CORPORATION  
(SECTION 9)**

The Undersigned hereby certifies and warrants: that all of the statements, certifications, and representations set forth in this EDS are true, complete and correct; that the Undersigned is in full compliance and will continue to be in compliance throughout the term of the Contract or County Privilege issued to the Undersigned with all the policies and requirements set forth in this EDS; and that all of the facts and information provided by the Undersigned in this EDS are true, complete and correct. The Undersigned agrees to inform the Chief Procurement Officer in writing if any of such statements, certifications, representations, facts or information becomes or is found to be untrue, incomplete or incorrect during the term of the Contract or County Privilege.

BUSINESS NAME: Radio Satellite Integrators, Inc

BUSINESS ADDRESS: 19144 Van Ness Ave, Torrance, CA 90501

BUSINESS TELEPHONE: (310) 787-7700 FAX NUMBER: (310) 787-7435

CONTACT PERSON: Brett Lim

FEIN: 33-0477102 \*IL CORPORATE FILE NUMBER: \_\_\_\_\_

**LIST THE FOLLOWING CORPORATE OFFICERS:**

PRESIDENT: Jon Michels VICE PRESIDENT: Brian Burda

SECRETARY: Brian Burda \*TREASURER: Brian Burda

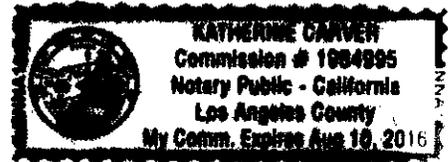
\*\*SIGNATURE OF PRESIDENT: \_\_\_\_\_

ATTEST: Brian Burda \_\_\_\_\_ (CORPORATE SECRETARY)

Subscribed and sworn to before me this  
10th day of January, 2014.

X Katherine Carver  
Notary Public Signature

My commission expires: \_\_\_\_\_



Notary Seal

\* If the corporation is not registered in the State of Illinois, a copy of the Certificate of Good Standing from the state of incorporation must be submitted with this Signature Page.

\*\* In the event that this Signature Page is signed by any persons than the President and Secretary, attach either a certified copy of the corporate by-laws, resolution or other authorization by the corporation, authorizing such persons to sign the Signature Page on behalf of the corporation.

# *State of Florida*

## *Department of State*

I certify from the records of this office that RADIO SATELLITE INTEGRATORS, INCORPORATED is a corporation organized under the laws of the State of Florida, filed on July 9, 1991.

The document number of this corporation is S64706.

I further certify that said corporation has paid all fees due this office through December 31, 2013, that its most recent annual report/uniform business report was filed on April 15, 2013, and its status is active.

I further certify that said corporation has not filed Articles of Dissolution.

*Given under my hand and the  
Great Seal of the State of Florida  
at Tallahassee, the Capital, this  
the Third day of July, 2013*



*Ken DeFuria*  
**Secretary of State**

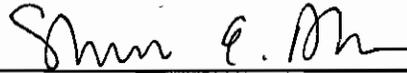
Authentication ID: CU9342358146

To authenticate this certificate, visit the following site, enter this ID, and then follow the instructions displayed.

<https://efile.sunbiz.org/certauthver.html>

COOK COUNTY SIGNATURE PAGE  
(SECTION 10)

ON BEHALF OF THE COUNTY OF COOK, A BODY POLITIC AND CORPORATE OF THE STATE OF ILLINOIS, THIS CONTRACT IS HEREBY EXECUTED BY:



COOK COUNTY CHIEF PROCUREMENT OFFICER

DATED AT CHICAGO, ILLINOIS THIS 24 DAY OF February, 2014.

IN THE CASE OF A BID PROPOSAL, THE COUNTY HEREBY ACCEPTS:

THE FOREGOING BID/PROPOSAL AS IDENTIFIED IN THE CONTRACT DOCUMENTS FOR CONTRACT NUMBER  
12-28-318

**OR**

ITEM(S), SECTION(S), PART(S): \_\_\_\_\_  
\_\_\_\_\_

TOTAL AMOUNT OF CONTRACT: \$ \$1,736,800.00  
(DOLLARS AND CENTS)

FUND CHARGEABLE: \_\_\_\_\_

APPROVED AS TO FORM:



ASSISTANT STATE'S ATTORNEY  
(Required on contracts over \$1,000,000.00)

APPROVED BY BOARD OF  
COOK COUNTY COMMISSIONERS

FEB 19 2014

COM \_\_\_\_\_

EXHIBIT 1

Scope of Work

## **AVL Scope of Work - Cook County**

### **Radio Satellite Integrators, Inc.**

#### **1. Scope**

The scope of the project is to implement an enterprise Automatic Vehicle Location system that is fully integrated with ESRI ArcGIS, work order, or other fleet management systems interface with RSI remotely hosted servers. These systems should provide Cook County Government with the tools for faster and more efficient dispatching along with real-time and historical data that can be used for a variety of administrative tasks or analysis. Cook County desires to implement an AVL system to enhance the ability to efficiently manage the assignment of vehicle operations; to use the AVL and Mobile Data system to increase safety, productivity, and service to the citizens in your area of operations.

The County maintains the intent to expand this program to include the fleets of other County entities.

The County's goals are to use AVL to support the operational functions of the County's fleets of heavy vehicles, light trucks, service vehicles and specialty equipment. The County needs to manage and operate GPS hardware, software and services to support the effective management of the County's fleet. Some of the desired outcomes include: improving emergency response, tracking snow removal and roadway maintenance, analyze routes, having robust reporting capabilities, and support for telemetry and telematics technology.

RSI's AVL solution shall provide a means to automate a vehicle's location and electronically transmit that coordinate position to a requestor. This transmittal shall be capable of containing telemetric information obtained by specialized sensors installed on a vehicle that, for example, can report snowplow position and salt spreader usage (on heavy trucks), or available engine diagnostic data. The transmittal shall also be capable of containing work status updates and observations provided by the driver if there is an optional driver interface. Moreover, with the cooperation of RSI, the County, and a County supplied third party, the RSI AVL system shall be capable to receive/incorporate County provided data tracking GPS-enabled personal devices such as mobile phones, laptops, tablets, etc.

As such, RSI shall ensure the data provided by an AVL solution is a resource for managers, as it aids the decision-making process and increases workflow efficiencies, which affords safer operations and fiscally responsible government. It is the County's belief that an AVL system is a critical component to the successful management of a valuable resource such as the County's fleet.

The current participating Departments in this program are:

- Cook County Department of Transportation and Highways (CCDOTH),
- Cook County Department of Environmental Control (CCDEC),
- Cook County Bureau of Technology (CCBOT),
- Cook County Bureau of Administration (CCBOA),
- Cook County Department of Homeland Security and Emergency Management (DHSEM),
- Cook County Department of Revenue (CCDOR),
- Cook County Department of Building and Zoning (CCBZ),

Cook County Clerk of the Circuit Court (CCCOCC) and  
Forest Preserve District of Cook County (FPDCC).

Vendor: Radio Satellite Integrators

The selected vendor, Radio Satellite Integrators (RSI), hereby represents that it the following: It has provided Automatic Vehicle Location (AVL) and mobile data systems that work to the highest levels of performance, reliability, and scalability since 1990. RSI is one of the oldest and most experienced AVL system integrators in the industry and has notable experience with local government and various municipal and utility fleets. RSI has implemented hundreds of enterprise AVL systems for cities and counties throughout the country.

### **1.1. Proposed Project Approach and Implementation Methodology**

At a fixed cost not to exceed that set forth in this Agreement, Radio Satellite Integrators (RSI) shall provide all necessary equipment, software and services for a remotely hosted enterprise level AVL system that will encompass the various Cook County fleets. Where equipment, software or services is required to implement RSI's solution described in this Agreement, RSI shall bear cost and responsibility for providing such equipment, software and services unless the County's responsibility for same is clearly specified herein. Optional items will be selected and approved by the Cook County Department of Geographic Information System (GIS) at the costs set forth in this Agreement.

RSI will:

- Provide and install mobile hardware
- Set up and configure hosted Web application
- Train administrators and users on software
- Train mechanics/staff on mobile hardware maintenance, installation, and trouble shooting
- Interface AVL system to other Cook County applications
- Maintain, update, and support system

The **RSI Mobile Unit** can be provided in a variety of forms with different options, capabilities, inputs, etc. The County and its departments will specify how each vehicle will be equipped, including options. The typical RSI Mobile Unit will be hard-wired in the vehicle cab, attached to power, ground, and ignition. The RSI Mobile Unit will gather a variety of vehicle information including but not limited to: ID, location, time, speed, heading, ignition status, engine hours, mileage, and idle time. Additional data may be gathered through **optional interfaces** such as engine diagnostics, sensors, devices, plows, spreaders, brooms, arms, ID readers, panic buttons, etc.

The **RSI AVL Application** is based on ESRI ArcGIS Server and will be implemented as a remotely hosted Web browser based application. Users interact with the system through industry-standard AVL mapping tools as well as customized reporting applications.

The In-Vehicle Equipment and Base Application are linked via two-way cellular wireless communications, allowing for timely data transmission between the field and dispatch center. For the fixed fees set forth in this Agreement, RSI shall ensure that all mobile units provided under this Agreement shall transit the specified data over the Verizon CDMA 1XRTT cellular data network to establish a 30 second update rate, plus stops, starts, turns, and events. Update rates can be changed and will result in costs adjustments outlined in this Agreement.

With the optional costs stated in this Agreement, RSI shall be responsible for ensuring that the AVL system it tenders to Cook County is customized and integrated to interface with Cook County's third party applications such as fleet management, work orders, and virtually any other application that can utilize vehicle location, status, and usage data.

Real-time interfacing with the County's ESRI GIS data via ArcGIS Server (Map Services) will be included in the fixed costs outlined in this Agreement.

### 1.1.1 Overview of the Implementation Methodology

#### Project Management

The RSI project manager will serve as the liaison for RSI during the implementation process and through the duration of the system. The project manager will serve as the point of contact for all technical and support issues.

#### Implementation

The Project Manager will schedule periodic calls/meetings to monitor the initial implementation and installation process. Communication is key in our implementations so we will be using a variety of methods including e-mail and telephone, as well as in person meetings when appropriate. Scheduling and planning will utilize industry standard project management tools such as Microsoft Project and other related systems.

#### Project Initiation

Introductions  
Kick Off Meeting

#### Project Planning

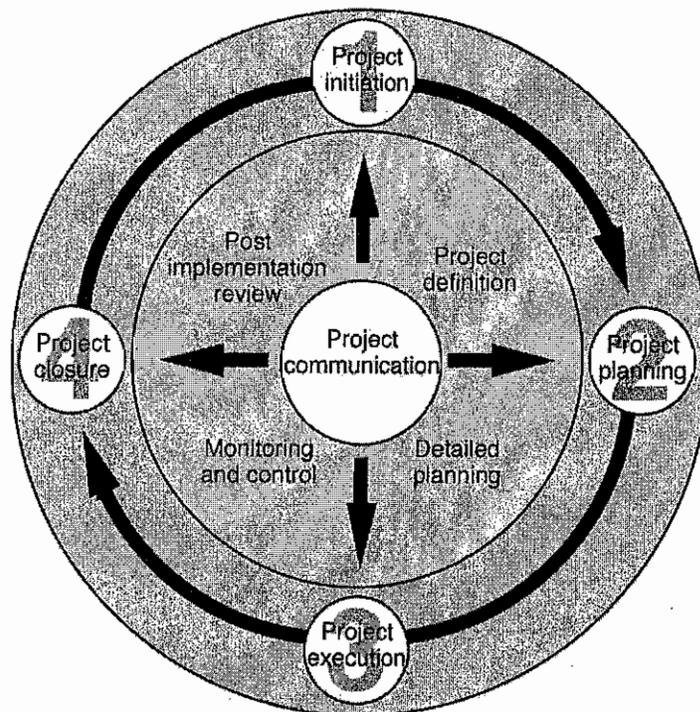
Design Review  
Define Roles and Responsibilities  
Expectations

#### Project Execution

Scheduled Communication  
Status Updates  
Resolving Issues  
Developing Options  
Following Up

#### Project Closure

Acceptance Testing  
Final Review



**Key RSI Staff**

**Project Manager**

Brian Burda, Vice President Technology

Education: B.S. Computer Science, University of Southern California

Experience:

Consultant, Process Control and Software Development, Clients include H.J. Heinz, United Airlines, ORE-IDA Foods, Weight Watchers, and the Marriott Hotel Corporation

\*Brian has 22 years of experience implementing AVL and tracking systems using GPS.

***Brian will serve as the lead project manager for the AVL implementation. Brian has extensive experience implementing AVL systems and will oversee the development of the Scope of Work and Implementation Work Plan.***

Lead Software and Hardware Integration Manager

Mark Holzworth, Director of Software Engineering

Education: B.S. Electrical Engineering, University of California at Santa Barbara

Experience:

Software engineer, Professional Products, Magellan Systems Corporation

\*Mark has over 20 years of experience in developing software to interface GPS and GIS, and embedded network communications control systems for AVL.

***Mark will oversee all integration efforts for this system. Mark has extensive experience interfacing various back end applications with the RSI AVL system.***

Executive Contact

Jonathan Michels, President

Education: B.S. Economics, Wharton School of the University of Pennsylvania

M.B.A., AGSM, University California at Los Angeles

Experience:

Director, Professional Products Division, Magellan Systems Corporation (GPS Manufacturer)

Vice President, Cellularm, radio frequency data network operator

GIS Analyst, Toyota Motor Sales, USA

\*Jon has over 25 years of experience in GIS, 24 years in RF communications and data, and 23 years in GPS technology.

***Jon will serve as the main point of contact for all contractual and administrative matters for this system.***

### 1.1.2 Project Plan and Timeline

#### Implementation Time Line

Radio Satellite Integrators will determine an appropriate implementation schedule for each specific project and customer. Here is a typical schedule to implement the system as outlined below. Some key milestones follow. (This is an example subject to change. A detailed and accurate project work plan cannot feasibly be created without meeting with the customer to determine specific configurations, preferences, processes, priorities, resources, etc.)

AVL System System Implementallon Schedule					
ID	%	Task Name	Duration	Predecessors	Resource Names
1	0%	<b>AVL Project Completion</b>	<b>91 days</b>		
2	0%	Receipt of Order	1 day		Customer
3					
4	0%	<b>Initial Phase</b>	<b>45 days</b>		
5	0%	<b>Design Review</b>	<b>45 days</b>		
6	0%	Gather Customer GIS/Map Data/Services	20 days	2	RSI/Cust GIS Team
7	0%	Gather Customer User List	20 days	2	RSI Customer PM
8	0%	Develop Customer AVL WIKI	5 days	2	RSI
9	0%	Gather COMPLETE List of Dep/GROUPS	20 days	2	Customer
10	0%	Gather COMPLETE Vehicle Install List w/ Inputs	10 days	2	RSI/Cust FLEET Dept
11	0%	Develop Design Review	40 days	2	RSI PM
12	0%	Submit Design Review	5 days	11	RSI PM
13	0%	Design Review Acceptance	0 days	12	RSI/Cust PM
14	0%	<b>Rollout Phase</b>	<b>90 days</b>		
15	0%	<b>System Delivery</b>	<b>30 days</b>		
16	0%	<b>Mobile Unit Build Procurement</b>	<b>25 days</b>		
17	0%	<b>Building and Procurement</b>	<b>20 days</b>		
18	0%	Mobile Units	20 days	2	RSI
19	0%	<b>Testing</b>	<b>5 days</b>		
20	0%	Mobile Units	5 days	18	RSI
21	0%	<b>Shipping</b>	<b>5 days</b>		
22	0%	Mobile Units	5 days	20	RSI
23	0%	<b>System Completion</b>	<b>65 days</b>		
24	0%	Installation	60 days	21	Installation Team
25	0%	<b>Configuration</b>	<b>30 days</b>		
26	0%	<b>Base Station</b>	<b>30 days</b>		
27	0%	Base Station (Software and Servers)	10 days	4	RSI
28	0%	Mobiles	2 days	20	Installation Team
29	0%	<b>Testing</b>	<b>10 days</b>		
30	0%	Complete Testing	10 days	28	RSI/Customer
31	0%	<b>User Training</b>	<b>10 days</b>		
32	0%	Develop User Training Plan	10 days	27	RSI/Customer
33	0%	Complete Entering List of Users	3 days	27	RSI
34	0%	Complete Entering List of ADMINS	2 days	27	RSI
35	0%	Secure Training Method/Materials	1 day	34	RSI/Customer PM
36	0%	Complete User Training Plan	3 days	35	RSI/Customer

### 1.1.3 Requirements Validation and System Design/Configuration

#### Test and Implementation Plan

The major purpose of the Implementation Plan (set forth here in Section 1.1.3) is to define a process for deploying the technical elements of the RSI AVL Project, and then schedule the integration of these elements into each agency's operating system. This transition not only calls for a partial re-deployment and enhancement of the current rolling stock, but also for the smooth integration and deployment of the AVL technology that is specified in the Scope of Work. In order to make the transition as smooth as possible and overcome any functional, technical, operational, and communication difficulties as they arise, RSI will utilize a phased approach.

At the same time, in order to ensure the final delivery of a system that conforms to the Project requirements, significant emphasis will be placed on the importance of achieving the operational and technological functionality defined in this Scope of Work and other 'Contract Documents'. This Implementation and Test Plan represents the vehicle through which RSI shall examine each operating function of the RSI AVL system to:

- Verify compliance with the system specifications, level of service standards and operating performance criteria
- Obtain Cook County's acceptance.

RSI will be responsible for component specific testing before delivery and will present such testing results to the County for its approval. As integration of the technical components begins, Cook County's Project Manager (& necessary staff) will oversee and coordinate the implementation of the integration testing in order to ensure compliance with the overall project and performance objectives set forth herein. The anticipated dates for conducting the required testing are defined in the Project Work Plan and will be finalized during the Design Review.

Two levels of system testing will be employed during the course of the RSI AVL Project, as follows:

**Laboratory:** individual module testing followed by integration testing to ensure the functionality of the components and the interoperability of the data interfaces between each component prior to deployment.

**Acceptance Testing:** the final test to ensure that each technical component of the system as well as the total system (technical components and operating services) conforms to system specifications, level of service standards and operating performance criteria.

As each service element comes on-line during the Test, it will remain on-line at the conclusion of the test and be operated in parallel by the Dispatch Center with the other elements that are already operational. The same will hold true for the activated functionalities of the project technologies mentioned above. Due to the linear approach of the project plan, if any of the elements fail during testing, further elements cannot be deployed until the problem has been resolved.

At the conclusion of each formal testing phase, RSI will provide Cook County with written certification of the test results and performance compliance for each of the system components. In the event of testing problems, Cook County, RSI and the appropriate agencies will meet and confer on the results of the testing performed. Subsequent decisions to proceed with the project must be approved by all parties. All the participants must attend scheduled meetings through means of conference calls or on-site visitations.

Also, final details of the Laboratory and Acceptance Tests will be confirmed with the stakeholders before implementation of the testing in order to ensure Cook County's service level does not degrade below current service levels during the testing process.

Finally, in addition to the above formal testing procedures, there will be a comprehensive demonstration of the operating system to Cook County. This demonstration (Acceptance Test) is necessary in order to satisfy the parties that substantial completion has been achieved.

### **Acceptance Testing**

There are two fundamental aspects to the Acceptance Testing (AT) – functional and operational. The functionality of the RSI AVL System will have been completely tested by the Test phase of the project. To a lesser extent, the ability of the user to change the operational parameters in order to change the service provided will have also been demonstrated.

Because of the inherent inability to predict the need for service changes, it is only by observing the system over a period of time that we can be reasonably assured that all the possible combinations and scenarios have been considered. During the Acceptance Testing the performance of the System will also be evaluated, with regard to the ability of the system to respond in a timely and efficient manner to customer oversight and customer requests. System Acceptance by the County should be completed in 30 calendar days or less.

Radio will provide Cook County with formal testing documentation and notify Cook County when ready for AT. AT will be based on the SOW. RSI will work with Cook County through all aspects of the testing until acceptance.

### **1.1.4 Knowledge Transfer /Training and Transition (Cutover)**

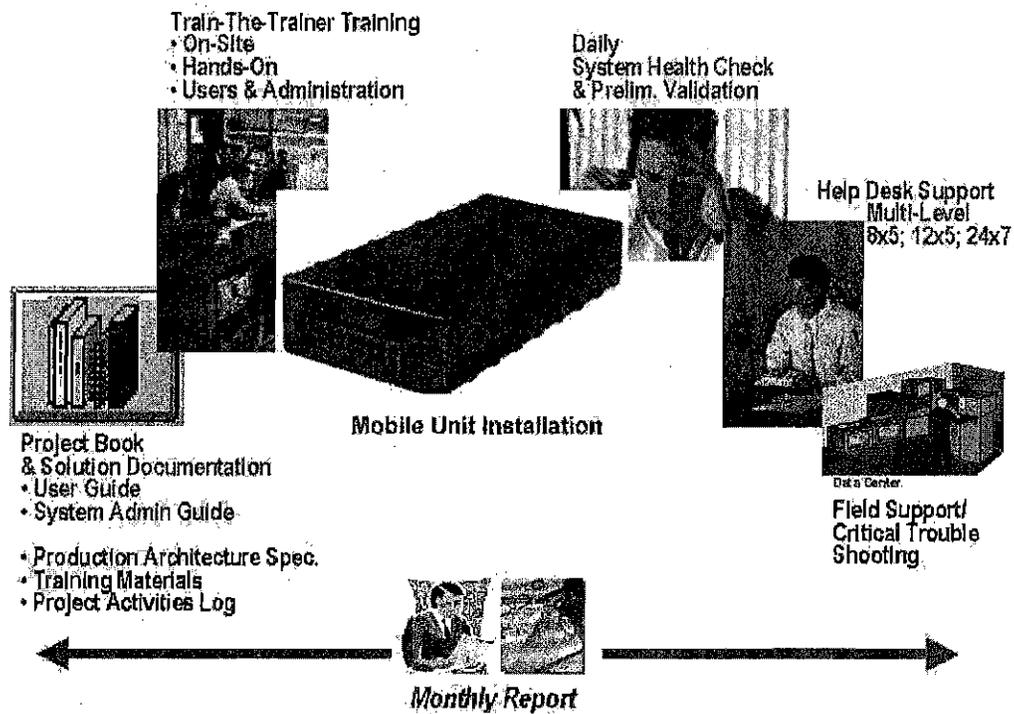
#### **Training**

#### **RSI Training Methodology**

RSI will provide live training sessions on the entire AVL system sufficient to ensure complete understanding and operations proficiency by the desired Cook County staff and administrative personnel. Cook County will receive training to be provided to the entire staff exposed to the system, with an intensive “train-the-trainer” approach for selected personnel in order to maximize long-term worker productivity. The training sessions shall be held at locations specified by Cook County for administrative, driver, dispatch, executive, maintenance, and all other relevant parties. All materials and manuals will be provided in both printed and electronic format. A day of training shall be an 8 hour day and be conducted in increments no smaller than two days at a time. If County staff “trained as trainers” are not available to provide proper training, RSI can provide remote online training at no cost.

**Training Program Overview**

RSI and the other team members will work with the customer’s team to define the required courses and a reasonable number of attendees/course duration during the implementation phase of the project.



## **Training Program**

The RSI AVL Training Program is designed to indoctrinate all employees in the use of the RSI AVL System.

All training will be specific, where appropriate, to the RSI AVL system, and will include practical user instruction, hands-on sessions using RSI AVL specific equipment and data, and vendor observation of live operations following system startup. The training sessions will be presented over the course of the project, and will enable customer personnel to assume the responsibility of the system upon Substantial Completion.

In concert with the Cook County Project Manager, RSI will develop and conduct a one-time operational overview of the entire RSI AVL operating system, which will provide Management with a practical, working knowledge of the RSI AVL system and its operational, customer, and functional capabilities.

The development of the Training and Orientation Program and the scheduling of the actual training sessions will take into consideration Cook County staff availability due to shift assignments and logistics. RSI AVL will coordinate with the Cook County Project Manager to ensure that personnel are available when the Training Programs are to be conducted. Furthermore, it is assumed that all attendees will be familiar with the basic concepts of the Windows Operating System, knowledge that is essential in order to be able to take full advantage of the courses offered. A workable understanding of Windows will be a pre-requisite for all attendees.

## **Advanced Training**

During the installation and testing process there will be a need for certain Cook County personnel (drivers, dispatchers and supervisors) to become familiar with some of the fundamental aspects of the system so they can participate in the testing process and in the evaluation of the software and system's performance. For this reason, a number of courses will be provided in advance of the Regular Training program. The content of the courses will focus on familiarizing select Cook County staff with the basic functionality and operational features of the system, together with 'hands-on' training in the use of the hardware to the extent necessary to support the initial Testing. RSI will provide Advance Training as necessary to support initial testing and integration.

Cook County's Project Manager will designate the specific individuals who will participate in this training when RSI indicates it is time to begin the Advance Training Course.

RSI will supply the specified manuals and documentation in both hard and soft copy.

### **Instruction Manuals**

User/Operating Procedure manuals, specific to the RSI AVL System, will be provided to each trainee. The User/Operating Procedure manuals will consist of the generic capabilities for each component as well as all the necessary amendments that describe Cook County's specific modifications and enhancements. Course Training Manuals, for each functional or technological area of training, will be provided to the Cook County Project Manager, along with master copies of all training and orientation documents in order to facilitate duplication of materials for future training purposes. Vendor equipment manuals relating to the specific software and hardware utilized in the project will also be delivered to Cook County's Project Manager. (Note: Any duplication of materials is for internal use on the RSI AVL Project and may NOT be distributed to outside sources except: (a) to other than third parties working for the benefit of the County who are not competitors of RSI or (b) as allowable or required by law)

All such printed training/orientation materials will be:

- Approved by the Cook County Project Manager prior to their use or distribution
- Customized and specific to the RSI AVL Project and the products used therein and the systems operating therein.
- Complete and current as of the date of Substantial Completion of the RSI AVL Project.
- Easily understandable, detailed and focused to the inherent knowledge levels of each of the below-described staff categories based on their individual 'need to know'.
- Updated, as necessary, consistent with any maintenance and support agreements to this Project.

### **Personnel To Be Trained**

There will be several levels of staffing associated with the RSI AVL operation; therefore, the training and orientation program will focus on both the required ('need to know') and inherent technical expertise of each of the employee groups or individuals, as follows (where a count below is designated as "TBD", the County retains sole discretion to set that number of staff trained, with the understanding that small training sessions are generally more effective than larger training sessions):

#### **Drivers (if necessary)**

Anticipated staff (final count TBD)

An in depth orientation in the AVL System function, usage, and dispatching requirements at the vehicle level.

A basic orientation in AVL System functionality and trouble shooting (when to ask for help).

A practical orientation in System capabilities as they relate to overall operations and customer services.

#### **Dispatchers**

Anticipated staff (final count TBD)

An in-depth orientation in the usage and a practical orientation in the features relating to operations and customer services of all AVL equipment at the vehicle and Dispatch Center levels.

A basic orientation in function trouble shooting (when to ask for help) at both the vehicle and dispatch center levels.

An in-depth orientation in data entry and retrieval, report design, generation and production.

#### **Supervisors**

An anticipated staff (final count TBD)

An in-depth orientation in the usage and a practical orientation in the features relating to operations and customer services of all AVL equipment at the vehicle and Dispatch Center levels.

A basic orientation in function trouble shooting (when to ask for help) at both the vehicle and Dispatch Center level.

The ability to train new drivers, dispatchers and supervisors in the use of and overall understanding of system functionality as it relates to all components and features of the RSI AVL technology.

#### **Operator Management**

An anticipated staff (final count TBD)

An in-depth orientation in the usage and a practical orientation in the features relating to operations and customer services of all AVL equipment at the vehicle and Dispatch Center levels.

A basic orientation in function trouble shooting (when to ask for help) at both the vehicle and Dispatch Center levels.

An orientation in systems management, the interoperability of the overall RSI AVL system capabilities, customer service features and potential report development and generation.

Maintenance monitoring requirements of the equipment and software and system repair and service procedures.

**Cook County Management**

An anticipated staff (final count TBD), including the Director, Information Systems Manager and administrative staff. (final count TBD)

An in-depth orientation in the usage and a practical orientation in the features relating to operations and customer services of all AVL equipment at the vehicle and Dispatch Center levels.

A basic orientation in function trouble shooting (when to ask for help) at both the vehicle and Dispatch Center levels.

An orientation in systems management, the interoperability of the overall RSI AVL system capabilities, customer service features and potential report development and generation.

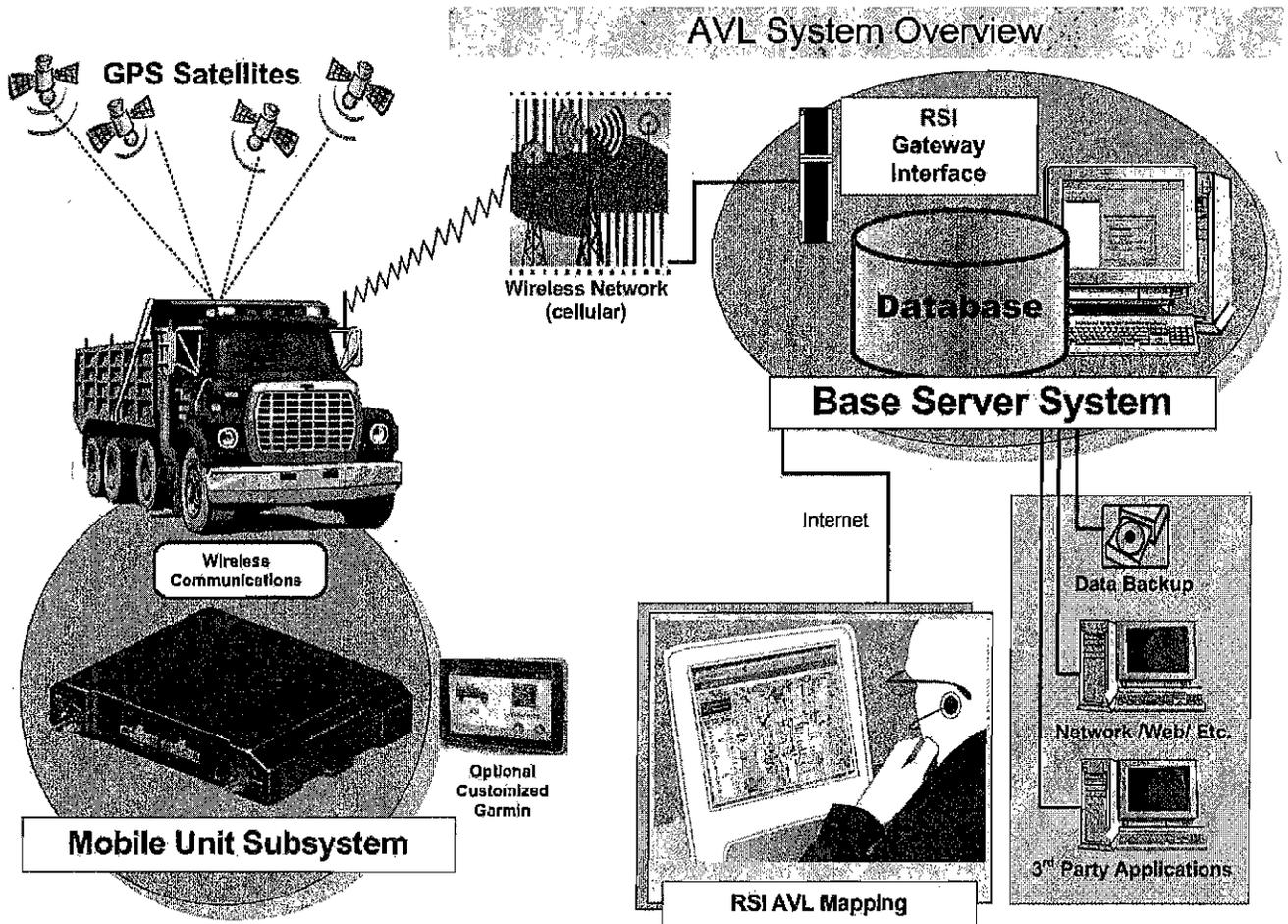
Maintenance monitoring requirements of the equipment and software and system repair and service procedures.

*Note: The Information Systems Manager will be trained to a significantly higher technical level. This individual will perform technical maintenance, hardware repair/replacement, troubleshoot problems, investigate communication system problems (LAN, WAN, etc.) and deal with all technical problems and upgrades in cooperation with RSI.*

## 1.2. System Solution Overview

### 1.2.1 Software Requirements

#### Technical Overview



#### Radio Satellite Integrator's AVL System

An RSI AVL solution consists of in-vehicle equipment and base applications and equipment. The **In-Vehicle Equipment is centered on the RSI Mobile Unit**, a self-contained "black box" device integrating GPS location and sensor technologies, as well as wireless communications. The mobile device can be connected to any device or sensor including lights, ignition, doors open/closed, alarms, etc. In addition, any variety of in-vehicle computing devices such as laptops or MDT's can be connected to the unit and mounted for a driver interface to the system.

The Mobile unit is responsible for the reporting of vehicle location and status information in addition to acting, if desired in the future, as a transparent communications gateway between the Base and Mobile. Data or other onboard devices such as alarms, etc.

The **Base Application** will be a configurable Web-browser based application based on ESRI ArcGIS Server hosted offsite by RSI. Users interact with the system through industry-standard mapping tools as well as customized reporting applications. The RSI AVL program will use Cook County's existing ESRI GIS map data.

The Base Server manages all fleet communications and configuration, acts as a messaging and data transfer gateway between base-side applications and in-vehicle devices, and archives and distributes the vehicle location and status information to the mapping application over the Internet. The Base Server will be hosted by RSI in our state-of-the-art server hosting facilities.

### **Mapping and Display Application**

Our powerful Web-Based mapping and display application, RSI AVL, will provide operations personnel the capability to rapidly, geographically analyze the GPS information and make critical decisions. This application is based on an ESRI ArcGIS Server Geographic Information System (GIS), which displays data collected from the mobile units at the Base Server. They run the tools and controls that enable the operations personnel to quickly adapt the information they are collecting and analyzing the views they are using to manage evolving situations.

The Mapping and Display Application provides valuable AVL Management tools:

- Real-Time Tracking (map-based)
- Report Generation (tabular or map-based)

The assignment of user-permission levels allows access to appropriate sub-sets of the installed functionality.

The RSI AVL application requires the Chrome browser or Internet Explorer 7 or higher. RSI will assist the County in configuring browsers for optional performance and compatibility with the application.

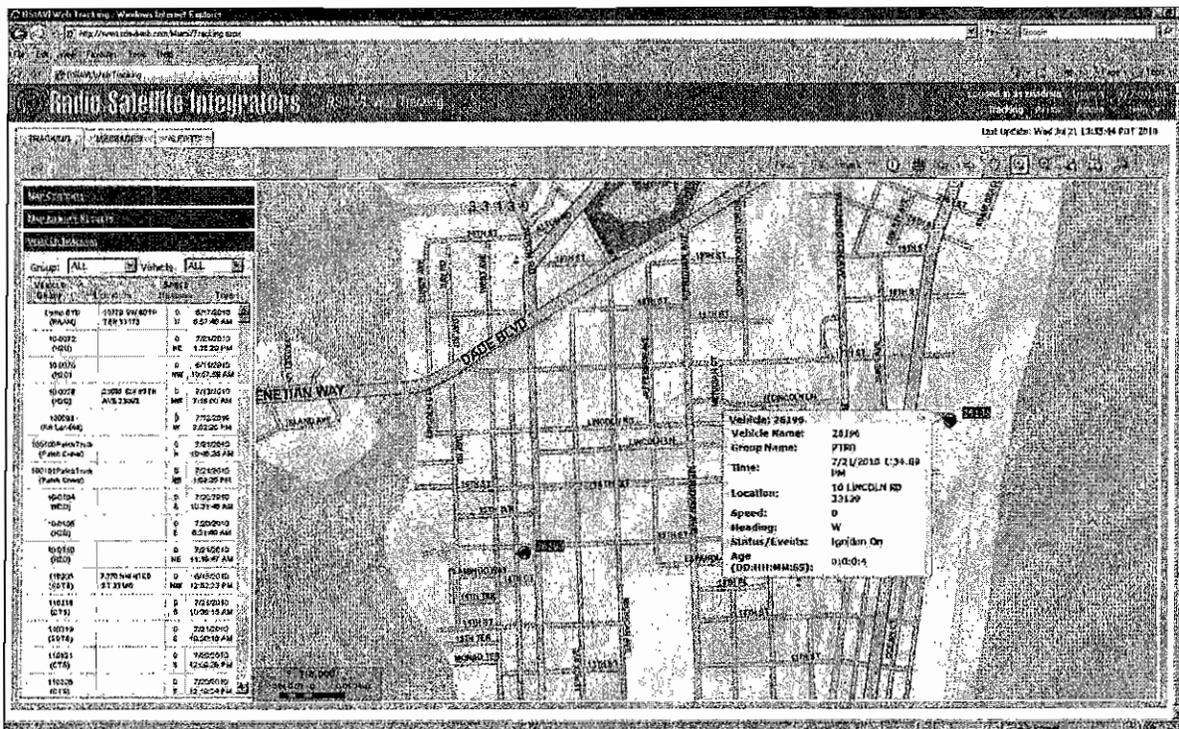
There are no foreseeable issues with the levels of network bandwidth or PC workstation memory/processors in a present day office environment.

### Real-Time Tracking

The RSI AVL Application displays the current location and status of the vehicle fleet, along with address, route, and other attribute information, over both raster and vector-based maps (as desired). The use of a powerful ESRI ArcGIS Server engine along with the incorporation of vector map data allows for almost endless display and analysis possibilities. A wide variety of customizable functionality is available and is described below.

The vehicle icons may be configured to indicate (using colors, directional symbols, labels, and size) various vehicle attributes (such as ID, status, speed, heading, etc.). All of the vehicle attribute data may be instantly queried and displayed in a pop-up box using a standard identify tool. Further, alarm and event notification may be set to notify the user of a status change for a particular vehicle.

If non-vehicle device location data is provided, RSI can display their location and history on this application. Some RSI AVL capabilities and reports will not apply to non-vehicle devices involving mileage, engine hours, speed, direction, etc.



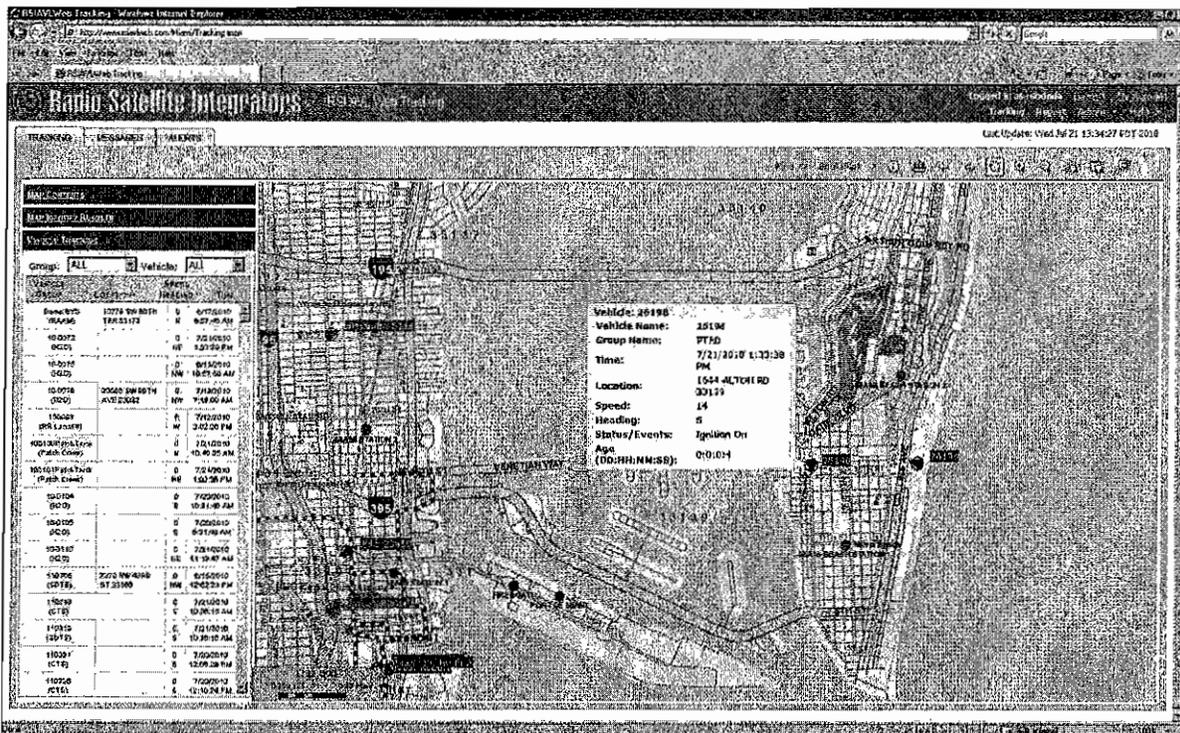
Clicking on a vehicle from the menu bar list will reveal more options for that specific vehicle.

**Map Viewing Features**

The RSI AVL Application displays the vehicle data in a “map window.” The map window can be set to display a particular area, route, stop, or address, or to track a specific sub-set of the entire fleet (from the entire fleet to an individual vehicle). In RSI AVL the map display window possesses a full-set of map manipulation and query functionality. Map manipulation tools and buttons are available to zoom, pan, and center the display on a particular vehicle, route, stop, or address. Additional tools are available to enable or disable labeling, to customize the map display according to user preferences, and to enter points and attributes (for incidents, etc.). Map query options include the ability to locate an address, vehicle, or stop, along with the capability to identify the closest available vehicle(s) to any entered point, address, or incident.

**Geo-Borders**

The RSI AVL system allows the user to set geo-fences on the map display. This geo-borders will create an alert and/or exception report when breached and will appear as another item of status data with each vehicle position report. Geo-borders can be created as polygons or a configurable radius from a specific point, as well as created from existing boundaries, landmarks or zones within your GIS.



**Real-Time Alerts**

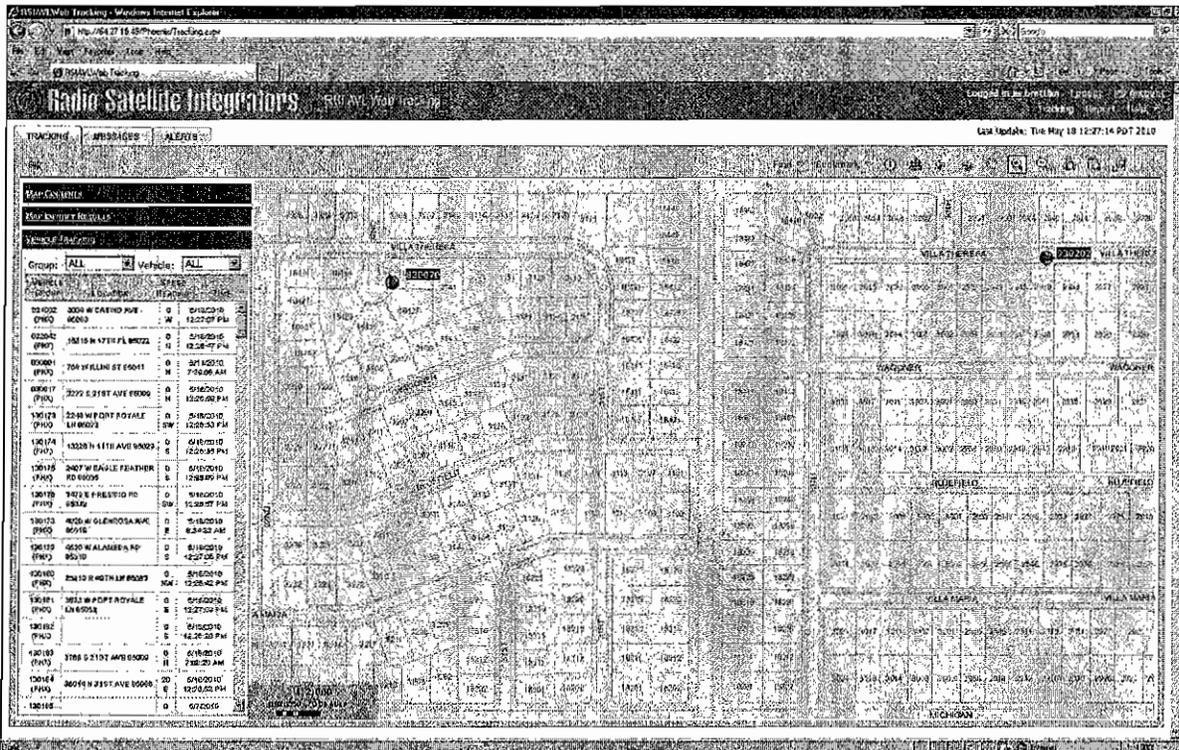
The RSI AVL system allows authorized administrators extensive control over system features including alerts and alarms. The system can be configured to notify selected users when specific events occur with any of the vehicles. This includes geo-borders, hours of operation, idle, panic buttons, etc. Notifications can be sent as an e-mail, SMS, or to the alert screen on the software.

VEHICLE	ALERT TEXT	DATE
20333 (WasteWater)	Depart Geofence Line Maintenance	2/1/2011 5:17:16 PM
20332 (WasteWater)	Arrive Geofence Line Maintenance	2/1/2011 5:02:59 PM
20330 (WasteWater)	Arrive Geofence Line Maintenance	2/1/2011 1:23:46 PM
20331 (Water)	Arrive Geofence Line Maintenance	2/1/2011 1:23:25 PM
20329 (Bulky)	Depart Geofence Solid Waste Management	1/21/2011 6:50:30 AM

**Using County ESRI GIS Map Data**

The RSI AVL system can use virtually any type of map data, but in particular our software can overlay our AVL information on your own ESRI GIS maps. RSI allows you to utilize your existing investment of time and labor that went into your ESRI map data. The RSI AVL system relates real-time vehicle location and status data to the infrastructure, assets, boundaries, updates, routes, parcels, landmarks, and other critical elements of your constantly changing GIS map data. RSI has extensive experience working with ESRI data and environments in all forms (.shp files, SDE, etc.).

**Subject to County approval of access and use, RSI can actually access your GIS map data in real time via Map Services.**



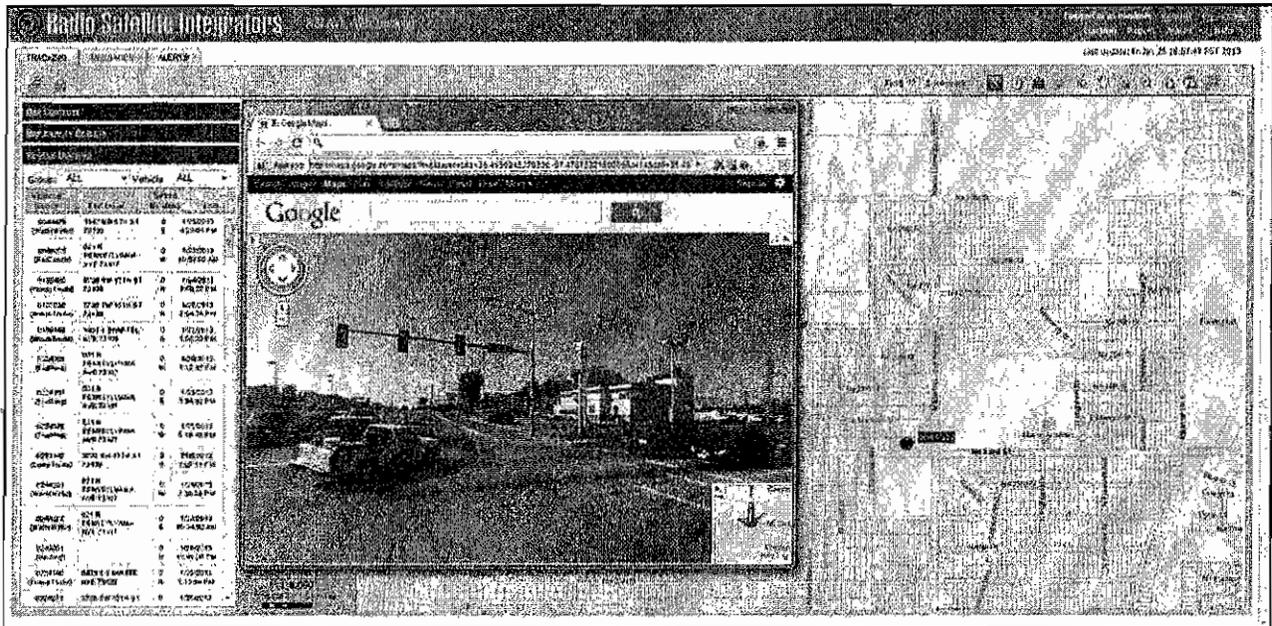
### **Leveraging GIS Technology**

Because Radio Satellite Integrators uses a powerful ESRI GIS as the basis for both display and analysis, operations has the capability to perform complex "spatial query" analysis that capitalizes on the geographic referencing or correlation of the GPS location and velocity data collected with the base map. Our use of vectorized maps allows the user to analyze space and time components in entirety. Query capabilities are virtually unlimited. For example, RSI AVL includes a unique algorithm developed by RSI, which selects and recommends a vehicle for dispatch based on real-time location.

All of the real-time tracking functionality is available through the menus, buttons, and tools of the graphical user interface (which is easily customized to accommodate specific desires and requirements).

### **RSI Google Maps Street View Tool**

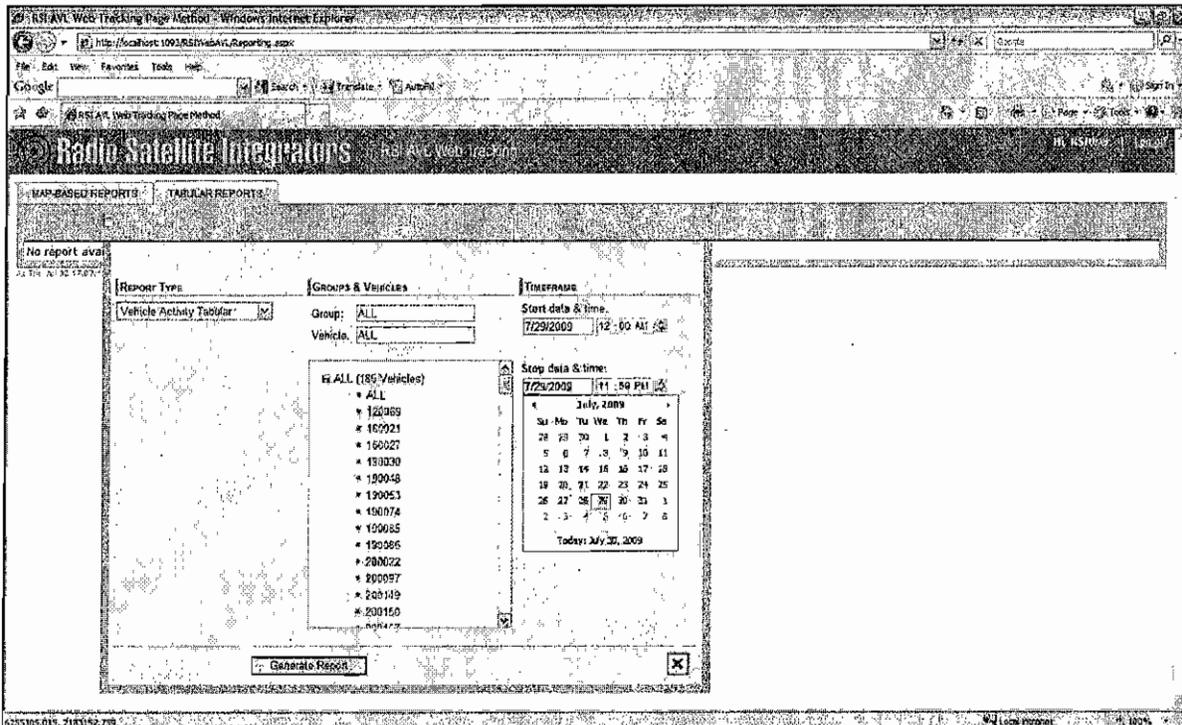
The RSI AVL system has a feature that leverages the highly useful Google Maps Street View tool from the RSI AVL system interface. This RSI Google Street View Tool allows the user to click anywhere on the GIS map data within the RSI AVL Map window, and RSI AVL will hyperlink that location to a new pop-up window showing the Google Maps Street View of that exact location. This function allows the RSI AVL user to see the typical real world surroundings of a specific place from their GIS. The Google Maps Street View shows images of the area recently captured (not real-time) by Google's mobile cameras. It allows the users to see things like buildings, road signs, lanes, businesses and other permanent structures that exist at that location that their GIS data does not have.

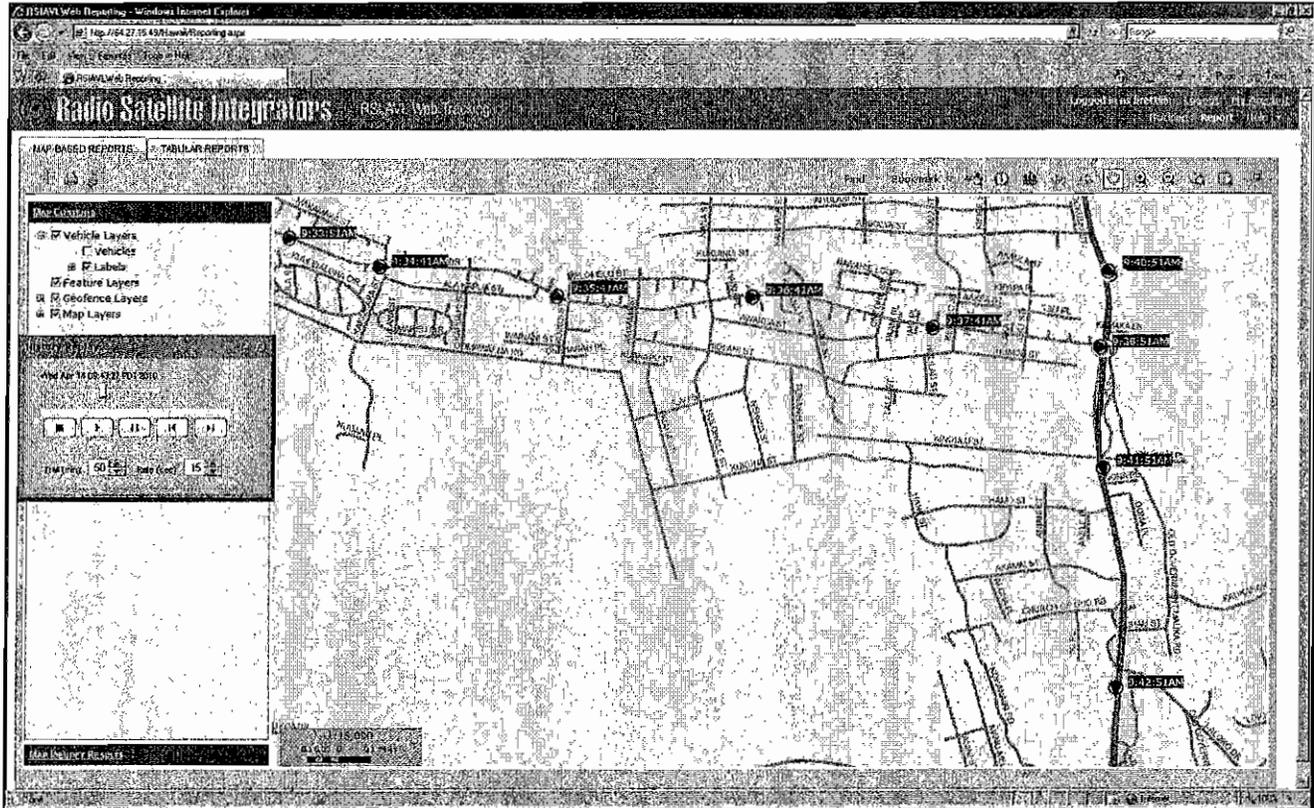


## Reporting Functions

The Report Generation Application is an extension to the Real-Time Vehicle Tracking Application described above, and can generate both tabular and graphical map-based reports based on archived vehicle location and status data. Reports may be produced for selected vehicles (or groups of vehicles) according to time, location, and status criteria. The **Map-based report** displays allow users to visually display or re-trace a vehicle's route and status, and include the same map manipulation and query functionality as the real-time vehicle tracking displays. **Tabular reports** display unit location and activity in a text-based spreadsheet or table. Such reports may be exported into virtually any format including .CSV and MS Excel files.

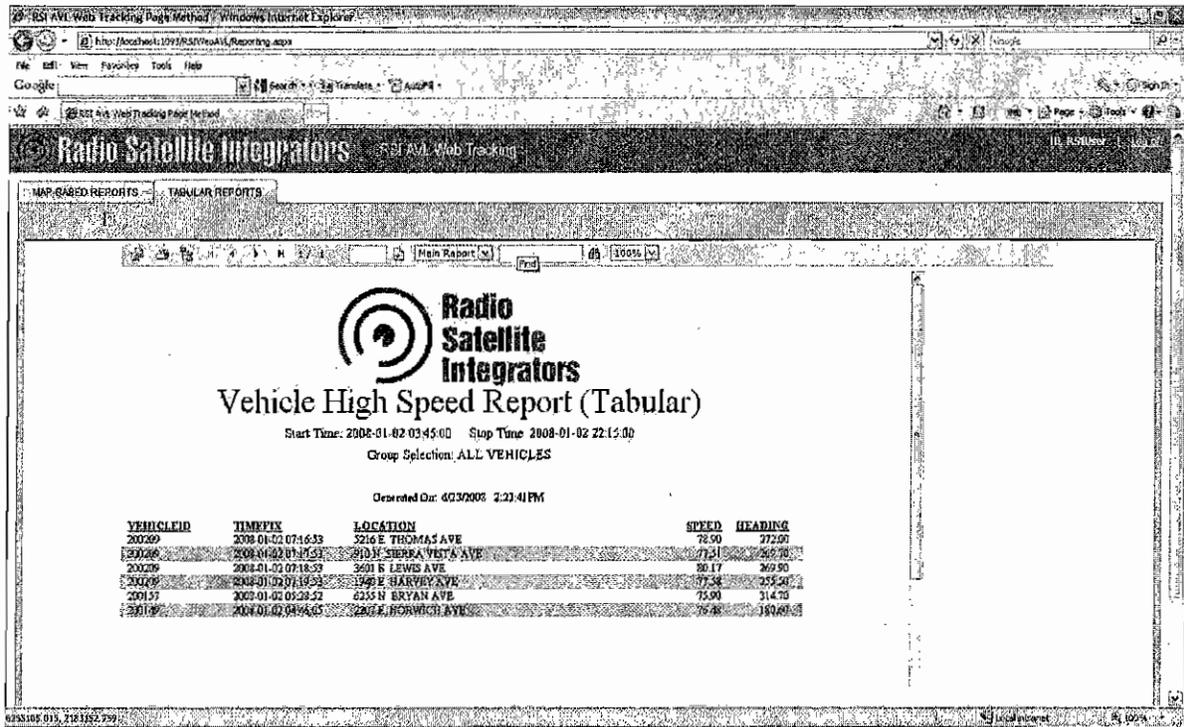
**Specific types of reports will be customized to the customers' guidelines as part of initial system design review.**





### **Breadcrumb Replay Feature**

The RSI AVL system allows you to watch a historical “replay” of any portion of a vehicle’s activity history at various speeds. Controls let you play, pause, rewind, and fast forward the replay allowing you to watch the vehicles’ movement and behavior including location, device activities, alerts, status changes, events, etc. Each breadcrumb icon represents a vehicle position and all its underlying data including address, direction, speed, and status. Breadcrumb icons can be customized to represent various statuses and events, such as ignition off/on, or a device is activated (broom, plow, armature, PTO, etc.)



*Note: Your user interface will differ depending on customized configuration and preferences.*

### Reports

The RSI AVL system comes with a suite of standard graphical and tabular reports that cover all the main vehicle activities that one would expect from an industry leading AVL system. We have spent years working with hundreds of fleet customers to refine our report offerings to encompass the most useful and important reports. Our standard reports are:

#### Graphical Reports (breadcrumb with replay)

- Vehicle Activity
- Speed
- Stop
- Power Take Off (PTO)

#### Tabular Reports (spreadsheets)

- Vehicle Activity
- Travel & Stop
- Overspeed
- Geo-borders
- Geo-border by Geo-border
- Vehicle Usage (Mileage, Idle Time & Engine Hours)
- Vehicle Usage Detailed (Mileage, Idle Time & Engine Hours)

- Vehicle Inactivity
- Message Report (Requires MDT or Garmin)
- Diagnostic Report (Requires diagnostic equipment)
- Sensor Reports (Requires sensors such as: armatures, PTO, brush, plows, etc.)
- Spreader Reports (Requires interface to spreader controller)
- ID Card Scan (Requires ID card reader)
- Status Change

### **Custom Reports**

RSI will work with the customer to supply customized reports with the system. RSI will handle pricing of additional reports in a case by case manner. RSI is willing to provide custom reports at no charge assuming they are relatively universal in utility. Extremely unique and laborious reports may incur a one-time fee, as outlined in this Agreement. As set forth further in Section 1.2.5 (Data Ownership, Access and Retention), at all times throughout this Agreement, RSI will provide a data service and or FTP dump of historical data that the County can use to create their own reports for no charge. RSI uses industry standard database and reporting tools (Crystal Reports) so the County can generate their own customized reports if desired.

**Vehicle Activity**

Generated on 7/24/2012 7:24 PM MST

Page 1 of 23

Group: 201030 WEST CONT (44 Vehicles) | Vehicle: 030080 | Timeframe: Mon 7/23/2012 12:00 AM - Tue 7/24/2012 12:00 AM

Date & Time	Location	Landmark	Speed	Heading	Event Description
<b>201030 WEST CONT</b>					
<b>Vehicle: 030080</b>					
7/23/2012 5:43:43AM	4020 W GLENROSA AVE 85019	GSC	0	N	Ignition ON
7/23/2012 5:44:43AM	4020 W GLENROSA AVE 85019	GSC	0	N	
7/23/2012 5:44:45AM	4020 W GLENROSA AVE 85019	GSC	0	N	
7/23/2012 5:48:52AM	4020 W GLENROSA AVE 85019	GSC	0	N	Armature
7/23/2012 5:58:52AM	4020 W GLENROSA AVE 85019	GSC	5	N	
7/23/2012 5:59:52AM	4205 W GLENROSA AVE 85019		28	W	Depart Geofence
7/23/2012 6:04:52AM	4234 W INDIAN SCHOOL RD 85019		34	E	
7/23/2012 6:05:52AM	3600 W INDIAN SCHOOL RD 85019		49	E	
7/23/2012 6:08:52AM	4102 N 30TH AVE 85017		49	E	
7/23/2012 6:08:52AM	0 N/A 85015		34	N	

**Overspeed**

Generated on 7/24/2012 10:39 PM EST

Page 1 of 1

Group: Building & Code | Vehicle: ALL | Timeframe: Mon 7/23/2012 12:00 AM - Tue 7/24/2012 12:00 AM

Date & Time	Location	Location	Description	Speed	Speed Over Limit
<b>Building</b>					
<b>Vehicle: 1545</b>					
7/23/2012 9:31:20AM	1601 ALTON CT 33139		Overspeed	26	21
<b>Vehicle: 2689</b>					
7/23/2012 10:58:47AM	1601 LENOX CT 33139		Overspeed	16	11
<b>Vehicle: 2692</b>					
7/23/2012 6:59:34AM	STHY 112 E 33142		Overspeed	73	18
7/23/2012 7:00:34AM	STHY 112 E 33142		Overspeed	68	13
7/23/2012 7:07:34AM	1369 I-195 RAMPOFEB 33140	Central Zone	Overspeed	47	17
7/23/2012 4:26:20PM	STHY 112 W 33142		Overspeed	71	16
7/23/2012 4:45:37PM	RAMP 33012		Overspeed	43	23
7/23/2012 4:50:48PM	6945 W 24TH AVE 33016		Overspeed	36	11
<b>Vehicle: 4174</b>					
7/23/2012 2:33:19PM	3674 PINE TREE DR 33140	Central Zone	Overspeed	44	14
7/23/2012 2:38:43PM	1055 W 4TH CT 33140	Central Zone	Overspeed	24	19
<b>Vehicle: 4180</b>					
7/23/2012 11:37:55AM	1692 71ST ST 33141		Overspeed	46	16
<b>Code Compliance</b>					
<b>Vehicle: 1549</b>					
7/23/2012 7:08:07AM	1672 MERIDIAN CT 33139		Overspeed	20	15
7/23/2012 9:28:24AM	1287 COLLINS CT 33139		Overspeed	15	10
<b>Vehicle: 1582</b>					
7/23/2012 12:59:16AM	6301 INDIAN CREEK DR 33141	North Zone	Overspeed	43	13
<b>Vehicle: 4196</b>					
7/23/2012 12:47:09PM	1186 LINCOLN CT 33139		Overspeed	21	15
7/23/2012 7:56:00PM	4925 PINE TREE DR 33140	Central Zone	Overspeed	41	11
<b>Vehicle: 4197</b>					
7/23/2012 7:26:15PM	1707 LENOX CT 33139		Overspeed	15	10

### 1.2.2 Hardware and Equipment Requirements

#### RSI AVL Mobile Units

RSI can offer a wide variety of the newest state-of-the-art AVL devices for various County needs. The new RSI mobile GPS devices can be equipped with a variety of networks, options, serial ports and sensors that integrate to virtually any devices and external status signals, such as ignition on/off, door open/shut, lights, plow, engine diagnostics, data terminal, ID readers, etc. Optional items will be selected and approved by the County at the costs set forth in this Agreement.

Some of the options that are available with new RSI AVL hardware are:

- Engine Diagnostics (Light Duty OBD-II or Heavy Duty JBus)
- Spreader Controller Interface
- Customized Garmin Driver Interface for messaging, login, and navigation
- Driver ID Readers (RF ID, magnetic stripe cards, or iButton)
- Emergency Panic Buttons (dash mounted or wireless handheld buttons)

Unit Name	Data Inputs	Diagnostics	Wireless	Optional Add-Ons	Notes
<b>LMU 4220*</b>	16 I/O, 2 serial	OBDII/JBus optional	2G (WiFi optional)	Driver ID, Garmin, panic button	Internal Battery for short term power disconnection
<b>LMU 5000</b>	12 I/O, 1 serial, USB, Ethernet	OBDII/JBus optional	<b>3G</b>	Driver ID, Garmin, panic button	Provides wireless connectivity for in-vehicle laptop etc.
<b>LMU 3000</b>	None	OBDII standard	2G	None	Plugs directly into OBD port
<b>TTU</b>	6 I/O	OBDII/JBus optional	2G	None	Internal Battery (6 mos.) Used for equipment/ trailers

\*Recommended standard unit

**RSI Mobile Unit**

The recommended RSI Mobile Subsystem consists of a RSI Mobile Unit; GPS and RF antennas and associated cabling; all required data, sensor, and power connections. Each RSI Mobile Unit contains a 50 channel GPS receiver (or greater), wireless communications, and optional multiple external data and sensor ports. To ensure reliability and availability of the entire system, the critical mobile units are built to exacting military standards to resist vibration, climate, and electromagnetic interference. First-quality components, extensive RF/EMI shielding, and specialty power conditioning circuits protect the GPS receiver and micro-controller in the "computer hostile" vehicular environment.

Each RSI Mobile Unit will be equipped with a state-of-the-art 50 channel, WAAS enabled, all-in-view GPS receiver. This GPS receiver delivers superior performance and field-proven reliability and provides for fast signal reacquisition, position accuracy, and the filtering of spurious and erroneous data. The GPS accuracy is 2 meters (7 feet).

The mobile units provided for this system are manufactured by CalAmp, an industry standard for AVL system providers. RSI shall ensure that the County has all rights necessary to use the CalAmp devices, and all accompanying firmware or embedded software necessary for the devices to function, with other vendors after the RSI contract. RSI shall not ensure compatibility with other vendors, only that the County has the rights to use such devices. Furthermore, the County's rights to use the aforementioned accompanying software shall not include the County's right to use Consultant's remotely hosted enterprise level AVL system after the termination of this Agreement.

### **Interface to Devices and Sensors**

The RSI Mobile Unit is capable of interfacing to a wide variety of external mobile data terminals, mobile computing devices, in-vehicle peripherals, and various sensor systems. The RSI Mobile Unit serves as a mobile gateway, paying particular attention to supporting a variety of devices. The RSI Mobile Unit will be connected to the on-board vehicle power and optionally to any sensor signals as desired such as:

- Ignition on/off
- Door open/locked
- Lights on/off
- Any device/event/switch/data source
- Armature/device up/down
- RF ID, Card Swipe Reader, iButton Driver ID
- Vehicle Engine Diagnostics
- Brooms/Plows/**Spreader Controllers**
- Landmarking
- Siren/Light Bar/Flashers
- PTO
- Etc.

### **Vehicle Diagnostics Option**

As an option, an interface to engine diagnostics can be added to the RSI AVL system giving you real-time access to engine trouble codes and other vehicle information for either light duty (OBD-II) or heavy duty (JBus) vehicle types.

### **Panic Button Feature**

The RSI Mobile Unit can be equipped with an emergency panic button configuration that is a dashboard-mounted button that sends a priority signal over-the-air to the dispatch interface or real-time alert. RSI can also offer a wireless handheld panic button that can be activated up to 300 feet from the vehicle.

### **Driver ID Readers**

RSI offers a variety of Driver ID solutions including readers that are compatible with existing customer ID cards such as RF ID and magnetic stripe cards. In addition RSI can offer an iButton key fob solution for unique standalone driver identification.

### **Antennas, Cables, and Connectors**

The GPS/RF antenna is typically an active low-profile micro-strip, two-in-one “hockey-puck” type and is connected to the RSI Mobile Unit with low-loss coaxial cable. Typically the antenna is installed in The high gain antenna increases the ability for the GPS to receive weak signals under trees or canopy, while its very small design presents little or no profile for tampering or inadvertent damage. The RSI Mobile Unit can use any type of GPS antenna that is required or specified. The RSI Mobile Unit comes with all bracketing, cabling, and connectors required for full installation. RSI configures the system so it cannot be easily disabled by the driver and/or user.

RSI shall ensure that wireless network coverage will be provided and maintained by Verizon Wireless, and be equal or better than the coverage experienced with individual cell phones.

**RSI Mobile Unit LMU 4220 (16 I/O)**



- GSM/GPRS, CDMA 1X, or HSPA cellular configurations
- Dual reporting 20,000 buffered message log
- Built-in 3-axis accelerometer for motion sensing, hard braking, impact detection
- 32 built-in Geo-Zones, plus any combination of circle or polygon zones, up to 5400 points
- Web-Based Device Management diagnostic tools
- Garmin, MDT, and other advanced peripherals support

**Location Specifications**

Location Technology	50 Channel GPS (with SBAS) SBAS: WAAS, EGNOS, MSAS, GAGAN
Location Accuracy	2.0 meter CEP (with SBAS)
Tracking Sensitivity	-160dBm
Acquisition Sensitivity	-147dBm
Kick Start	3 Sec @ -130dBm
AGPS capable	

**Communications Specifications**

Data Support	SMS, GPRS (UDP), CDMA 1X packet data
Cellular/PCS:	FCC- Parts 22, 24; PTCRB
GPRS	Up to class 12
GPRS Quad-Band	850/900/1800/1900 MHz
CDMA Dual-Band	800/1900 MHz
HSPA/UMTS Tri-Band	850/1800/1900 MHz HSUPA 2.0 Mbps HSDPA 7.2 Mbps

**Comprehensive I/O**

Ignition Input	1
Inputs	7 (high/low selectable 0-30 VDC)
Outputs	5 (open collector relay 150mA)
Current Limited Outputs	2 (20mA)
A/D Inputs	4 (0 - 30VDC, +/-0.1V accuracy)
1-Wire® Interface	Driver ID Temperature Sense
Status LEDs	GPS and Cellular

**Optional Features (with add-in daughter boards)**

WiFi	802.11b/g/l
jPOD Truck ECU Interface	J1708, J1939

**Certifications**

Fully certified FCC, CE, IC, PTCRB, CARRIERS

**Electrical Specifications**

Operating Voltage	6 - 32V DC
Power consumption	< 4 mA @ 12VDC (Deep Sleep) < 10 mA @ 12VDC (Sleep on Network (SMS)) < 20 mA @ 12VDC (Sleep on Network (GPRS)) < 70 mA @ 12VDC (Active Tracking)

**Physical Specifications**

Dimensions	4.3 (L) x 3.2 (W) x 0.86" (H), (110 x 81 x 22mm)
Weight	4 oz, (113 g)

**Environmental Specifications**

Temperature	-30° C to 70° C (Operating), -40° C to 85° C (Storage)
Humidity	95% RH @ 50° C non-condensing
Shock and Vibration	U.S. Military Standard 202G and 810G, SAE J1455
EMC/EMI	SAE J1113

**Connectors, SIM Access**

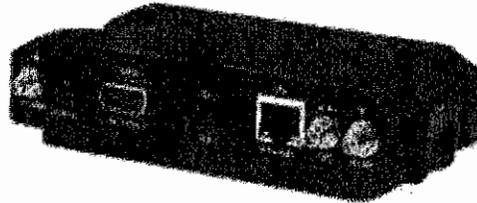
SIM Access	Internal
External Cellular	SMC
External GPS	SMA (with tamper monitoring, 3.0v)
WiFi option	RP-SMA
Vehicle Bus option	DB-15
4-Pin Molex:	Power, Ground, Ignition, A/D
2 5-Pin Molex	Switched Power Serial
16-Pin Molex	Expansion port
22-Pin Molex	I/O connection

**Optional Features/Functions**

- External antennas (GPS, cellular, combined GPS/cellular)
- Serial adapter cable RS-232 8-wire (PPP, AT Commands, NMEA GPS output)
- jPOD dongle for truck ECU interface
- Connectorized I/O wiring harnesses

*Specifications subject to change*

**RSI Mobile Unit LMU 5000 (3G High Speed)**



**Processor Specifications**

Processor	ARM9 32bit MCU
Speed	400 MHz
Flash	128M Bytes
RAM	64M Bytes @ 133 MHz bus speed
Real Time Clock	

**Operating System, Software Interfaces, Security**

Operating System	E Linux 2.6
Application Interfaces	TCP/IP, UDP/IP, DHCP, HTTP, IP Router, PPP, HTTP Web server, Telnet, DHCP server, DDNS, DDNS Client, NAT, NMEA, TAIP, TSIP, GPS, TFTP, IP port forwarding
Security	VPN (SSL v2, TLS v1) SSH server, SCP, SFTP

**GPS Specifications**

Location Technology	50-channel GPS with SBAS, DGPS
Location Accuracy	2.0 meter CEP (with SBAS)
Tracking Sensitivity	-162 dBm
Acquisition Sensitivity	-147 dBm
Kick Start	3 sec @ -130 dBm
AGPS Capable	

**Cellular Specifications**

HSPA Tri-Band	850/1900/2100 MHz diversity capability Downlink up to 7.2 Mbps Uplink up to 5.76 Mbps Fallback to HSDPA/UMTS/EDGE/GPRS
EVDO Rev A Dual-Band	800/1900 MHz diversity capability Downlink up to 3.1 Mbps Uplink up to 1.8 Mbps Fallback to CDMA 1X Rev 0 and CDMA 1XRTT

**Certifications**

Fully certified FCC, CE, IC, PTCRB, Applicable Carriers

**Physical Specifications**

Dimensions	5.2 x 2.7 x 1.2", (131 x 67 x 29mm)
Weight	5.4 oz, (153 g)

**Electrical Specifications**

Operating Voltage	7-32 VDC (running), 9-30 VDC (starting)
Power Consumption	10 mW (deep sleep) 1 W (sleep on GPRS network) 2.4 W (active tracking)

**Environmental Specifications**

Temperature	-30° C to 70° C (operating) -40° C to 85° C (storage)
Humidity	95% R.H. @ 50° C non-condensing
Shock and Vibration	U.S. Military Standard 202G and 810G, SAE J1455
EMC/EMI	SAE J1113

**Connectors, SIM Access**

SIM Access	Slot access
Cellular	SMA main, SMA diversity
External GPS	SMA (with tamper monitoring, 3.0v)
Ethernet	10/100 Base-T RJ45
USB	Host (standard), device (mini)
Serial	DB-9 (RS232), 5-Pin Molex (switch power TTL levels)
4-Pin Molex	Power, ignition, I/O
22-Pin Molex	I/O connections

**Mounting**

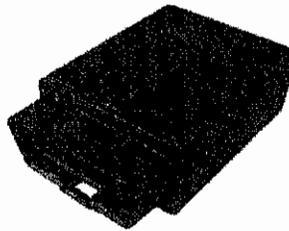
Tie wraps or adhesive  
Screw mounting bracket

**Comprehensive I/O**

Digital Inputs	7 high/low selectable inputs, 0-30 VDC
Digital Outputs	5 relay driver outputs (200mA) 2 low current LED outputs (20mA)
Voltage A/D input	4 +/-0.1 V accuracy and voltage range 0-30 VDC
1-Wire® Interface	2 (driver ID, temperature sense)
Ground	2
Status LEDs	Status, COMM, and GPS

*Specifications Subject to Change*

**RSI Mobile Unit LMU 3000 (OBD-II Diagnostics)**



**General Specifications**

Communication Modes	GPRS/EDGE/HSPA and CDMA 1xRTT packet data, UDP and SMS
Location Technology	50-channel GPS
Operating Voltage	12 volt vehicle systems

**GPS Specifications**

Location Technology	50-channel GPS (with SBAS) SBAS: WAAS, EGNOS, MSAS, GAGAN
Location Accuracy	2.0 meter CEP (with SBAS)
Tracking Sensitivity	-162 dBm
Acquisition Sensitivity	-147 dBm
AGPS Capable	

**Cellular Specifications**

Data Support	SMS, GPRS, CDMA 1xRTT or HSPA packet data
GSM/GPRS Quad-Band	850/900/1800/1900 MHz
GSM/GPRS Output Power	Class 4 (2 Watts) 850/900 bands Class 1 (1 Watt) 1800/1900 bands
CDMA Dual-Band	800/1900 MHz
CDMA Output Power	800: +24dBm 1900: +24dBm
HSPA/UMTS Dual-Band	900/2100 MHz (bands VIII, I) or 850/1900 MHz (bands V, II) 3GPP release 6 5.6 Mbps upload, 7.2 Mbps download
GSM/GPRS/EDGE fallback	850/900/1800/1900 quad-band GPRS class 12, EDGE MCS1-MCS9

**Comprehensive I/O**

Inputs	OBD-II Input: J1850 PWM, J1850 VPW, ISO-9141-2, ISO-14230, KWP2000, ISO-15765, CAN
Outputs	None
Serial Interface	1 TTL serial
Status LEDs	GPS, OBD-II and cellular

**Certifications**

Fully certified FCC, CE, IC, PTCRB, Applicable Carriers

**Environmental Specifications**

Temperature	-30° to +75° C (operating) -40° to +85° C (storage)
Humidity	95%RH @ 50° C non-condensing
Shock and Vibration	SAE J1455
EMC/EMI:	SAE J1113; FCC-Part 15B; Industry Canada
RoHS Compliant	

*Specifications subject to change*

**Electrical Specifications**

Operating Voltage	7-20 VDC
Power Consumption	3 mA @ 12 V (deep sleep) 11 mA @ 12 V (sleep on network) 140 mA @ 12 V (active)

**Physical Specifications**

Dimensions	1.7 x 2.5 x 1", (43 x 64 x 25 mm)
Weight	1.8 oz, (51 g)

**Connectors, SIM Access**

SIM Access	Internal
Connection Type	Built-in OBD-II Interface

**Mounting**

Built-in OBD-II connector

**Key Features**

- OBD-II interface
- Packet data (GPRS, CDMA 1xRTT, or HSPA) and SMS-based messaging
- Internal cellular and GPS antennas
- Super sensitive GPS (-162 dBm tracking)
- Ultra-low power sleep mode (<3mA)
- 3-axis accelerometer for driver behavior and impact detection
- Voltage monitoring and low battery notification
- 20,000 buffered messages
- 32 built-in geo-fences, plus any combination of circle or polygon zones, up to 5400 points
- PEG™ exception-based rules
- Automatic, over-the-air unit configuration on power-up (PULS™)
- Over-the-air firmware download (PULS™)
- Web-based device management (PULS™)
- Garmin® PMI compatible Interface

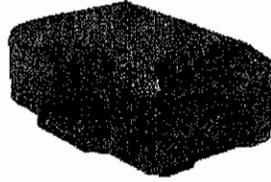
**Optional Features/Functions**

- Serial cable
- Garmin® interface or MDT serial interface

**Development Support Options**

- Customized hardware and software development available on request

**RSI Mobile Unit TTU (Trailer/Asset Tracking w Battery)**



**General Specifications**

Communication Modes	GPRS/EDGE/HSPA and CDMA 1xRTT packet data, UDP and SMS
Location Technology	50-channel GPS
Operating Voltage	12 and 24 volt systems

**GPS Specifications**

Location Technology	50-channel GPS (with SBAS) SBAS: WAAS, EGNOS, MSAS, GAGAN
Location Accuracy	2.0 meter CEP (with SBAS)
Tracking Sensitivity	-162 dBm
Acquisition Sensitivity	-147dBm
AGPS Capable	

**Battery Pack Specifications**

Battery Capacity	3.8 amp hour
Battery Operating Voltage	3.6 volts
Battery Technology	Lithium Ion

**Cellular Specifications**

Data Support	SMS, GPRS, CDMA 1xRTT or HSPA packet data
GSM/GPRS Quad-Band	850/900/1800/1900 MHz
GSM/GPRS Output Power	Class 4 (2 Watts) 850/900 bands Class 1 (1 Watt) 1800/1900 bands
CDMA Dual-Band	800/1900 MHz
CDMA Output Power	800: +24dBm 1900: +24dBm
HSPA/UMTS Dual-Band	900/2100 MHz (bands VIII, I) or 850/1900 MHz (bands V, II) 3GPP release 6 5.6 Mbps upload, 7.2 Mbps download
GSM/GPRS/EDGE Fallback	850/900/1800/1900 quad-band GPRS class 12, EDGE MCS1-MCS9

**Certifications**

Fully certified FCC, CE, IC, PTCRB, Applicable Carriers

**Comprehensive I/O**

Digital Inputs	3 programmable bias
Digital Outputs	3 open collector (150mA)
Status LEDs	GPS and cellular

**Electrical Specifications**

Operating Voltage	6-32 VDC
Power Consumption	3 mA @ 12V (deep sleep) 10 mA @ 12V (sleep on network with SMS) 20 mA @ 12V (sleep on network with GPRS) 70 mA @ 12V (active standby)

**Physical Specifications**

Dimensions	4.3 x 3.2 x 1.6", (110 x 80 x 40 mm)
Weight	9.6 oz, (272 g)

**Environmental Specifications**

Operating Temperature	-30° to +75° C
Storage Temperature	-40° to +85° C
Humidity	95%RH @ 50° C non-condensing
Shock and Vibration	U.S. Military Standards 202G and 810F, SAE J1455
EMC/EMI:	SAE J1113; FCC-Part 15B; Industry Canada
RoHS Compliant	

**Connectors, SIM Access**

SIM Access	Internal
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**Mounting**

Screw Mount  
Magnet Mount  
Tie Wrap

**Key Features**

- 6 months with single message cycle per day on fully charged batteries
- 3.8 Ah lithium ion re-chargeable battery pack
- IP66 sealed enclosure
- Packet data (GPRS, CDMA 1xRTT, or HSPA) and SMS-based messaging
- Internal GSM and GPS antennas
- Super sensitive GPS (-162 dBm tracking)
- Ultra-low power safe mode (<1mA)
- 3-axis accelerometer for motion, hard braking/acceleration, and impact detection
- 3 inputs and 3 outputs
- Voltage monitoring and low battery notification
- 20,000 buffered messages for data logging during coverage loss
- 32 built-in geo-fences (and 5400 vertices for polygon zones)
- PEG™ Exception-Based Rules
- Automatic, Over-The-Air Unit configuration on Power-up (PULS™)
- Over-The-Air Firmware Download (PULS™)
- Web-Based Device Management (PULS™)
- J1939 & J1708 ECU interface support (option)
- OBDII ECU interface support (option)

**Development Support Options**

- Customized hardware and software development available on request

*Specifications subject to change*

### 1.2.3 Integration/Interface

#### **Third Party System Integration**

One of the main differences between RSI and other AVL providers is our unparalleled experience with integrating our AVL and mobile data systems with third party applications. RSI has worked with dozens of third party providers of scheduling, dispatch, work order management, maintenance, as well as “home-grown” applications for various agencies. RSI has extensive experience interfacing with all types of third party applications such as:

- Work Orders
- Maintenance
- Scheduling
- Dispatch
- Routing
- GIS

The RSI AVL system is based on ESRI ArcGIS Server and has been engineered to share data with third party applications in a variety of ways.

RSI is able to leverage its vast engineering experience to allow for the easy integration and real-time sharing of all system data with third party applications and databases. RSI has written interface programs specific to a number of applications and databases (using methods such as Web Services, ESRI Map Services, COM/DCOM, ODBC, XML, SOAP, REST, TCP/IP sockets, CORBA, Oracle databases, data queues in an AS/400 environment, network files, etc.).

At an additional cost to be determined, RSI shall be responsible for ensuring that the AVL system it tenders to Cook County is customized and integrated to interface with Cook County’s third party applications such as Citiworks, Computerized Fleet Analysis (CFA), CCDTH fleet management, work orders, and virtually any other application that can utilize vehicle location, status, and usage data. Integration, maintenance, and other fees charged by third parties are not included as these costs are unknown at this time.

Real-time interfacing with the County’s ESRI GIS data via ArcGIS Server (Map Services) will be included in the fixed costs outlined in this Agreement.

### 1.2.4 Ordering, Invoicing, Shipping

#### **Ordering**

All orders will require the County to submit an itemized Purchase Order to RSI via e-mail. RSI will acknowledge the order and contact the County to provide confirmation and an estimated time of delivery.

#### **Invoice**

RSI will invoice the County for the hardware upon shipping the product.

RSI will invoice the County for the installation on a monthly basis for all installations performed and accepted in the previous month.

RSI will invoice for the Monthly Service Fees for all units installed and active in the previous month.

RSI will invoice Annual Extended Warranty Fees, where applicable annually and in advance of the upcoming year.

### **Shipping**

Cost of shipping is set forth in Exhibit 2 (Schedule of Compensation) and shall be shipped (insured) UPS Ground unless alternative arrangements are made. Shipping costs will be invoiced to the County (FOB Origin).

### **1.2.5 Data Ownership, Access and Retention**

“County Data” means any data, including metadata about such data and backup or other copies thereof, that the proposer or its subcontractors obtains or accesses for the purposes of performing its obligations under this Agreement; to the extent there is any uncertainty as to whether any data constitutes County Data, the data in question shall be treated as County Data. All RSI AVL data from County vehicles shall also be considered County Data. All RSI AVL data from County vehicles will remain the property of the County.

RSI shall bear responsibility and all costs associated with capturing, retaining, and retrieving County Data. RSI shall ensure that the County has direct access (i.e., that the County may itself retrieve such data without submitting a request to RSI) to 6 months of historical data “live” which the County can instantly access for reporting and exporting in non-proprietary, useable format. RSI shall archive all historical County Data indefinitely for the term of this Agreement. Archived data can be restored to the application for instant reporting upon request and in relatively short turn-around time. In addition, upon County request and at no cost to the County, RSI shall provide all historical locational data to the County in a variety of ways, including periodic (daily, weekly, etc.) secure FTP transfers of the SQL database files (with table structures), and hard storage media (DVD, USB drive, etc.).

All **County Data** shall be and remain the sole and exclusive property of the County. RSI will treat County Data as Confidential Information. RSI will be provided a license to County Data hereunder for the sole and exclusive purpose of performing its obligations under the resulting Agreement, including a limited non-exclusive, non-transferable license to transmit, process, and display County Data only to the extent necessary in the provisioning of the Services and not for the storage or recording of County Data. RSI is prohibited from disclosing County Data to any third party without specific written approval from the County. RSI will have no property interest in, and may assert no lien on or right to withhold County Data from Cook County.

A complete set of all County Data will be provided during and at the end of the term of the agreement.

RSI's electronic archives, back-up copies, or duplicates of Deliverables, including Documents and data, are included in the Deliverables. RSI has no property interest in, and may assert no lien on or right to withhold from the County, Deliverables, including Documents and data, under this Agreement.

### **1.2.6 Licensing, Warranties and other Terms and Conditions**

#### **Warranty**

As an expression of confidence in our products to continue meeting the high standard of reliability and performance that our customers have come to expect, Radio Satellite Integrators products are covered by the following warranty.

Radio Satellite Integrators fully warrants all products that RSI tenders to the County under this Agreement, regardless of whether RSI manufacturers such product, against defects in materials and workmanship for a period of five years from the date of factory sale ("Warranty Period"), such five years is described in the pricing schedule as an initial one year warranty and an additional four years of extended warranty. During the Warranty Period Radio Satellite Integrators provides the warranty service. Radio Satellite Integrators will, at its option, either repair or replace products which prove to be defective. The County shall prepay shipping charges for products returned to Radio Satellite Integrators for warranty service and RSI shall pay for return of products to County. However, the County shall pay all shipping charges, duties, and taxes for products returned to Radio Satellite Integrators from outside the United States. This warranty shall not apply to damage resulting from:

- Grossly improper or inadequate maintenance by the County, where applicable
- County -supplied interfaces
- Unauthorized modification or abuse
- Operation outside of the product environmental specifications that are explicitly stated in this Agreement
- Improper installation by the County, where applicable.

In order to demonstrate a legitimate warranty claim, the County shall provide RSI with evidence demonstrating the effects of a product malfunction. In order to disclaim warranty coverage, RSI must subsequently provide the County with evidence demonstrating that such malfunction effects are caused by abuse or other warranty exclusion stated above.

No other warranty is expressed or implied. Radio Satellite Integrators specifically disclaims the implied warranties of merchantability and fitness for a particular purpose. Remedies provided herein are Customer's sole and exclusive remedies for breaches of such warranties. Radio Satellite Integrators shall not be liable for any direct, indirect, special incidental, or consequential damages, whether based on contract, tort, or any other legal theory, except for actions, claims or damages related to intellectual property indemnification, data breaches, or breaches of confidentiality.

**Extended Annual Warranty**

Extended annual warranties for a total of four years is included for all hardware as indicated in the pricing schedule. Any further extended warranty requires uninterrupted coverage from the end of the original warranty term. The extended warranty covers the same specifications and conditions as the original manufacturer’s warranty.

**1.2.7 Support and Maintenance**

**Service Response Plan**

**The following is RSI’s standard Customer Support Plan:**

RSI will maintain all equipment and support software for one year, parts and labor. In addition, RSI will provide two options to help ensure smooth operation of the system:

**1) Phone Support** During the warranty period, RSI will provide unlimited phone support via our toll-free number [(866) 869-7700]. After hours support is available 24/7 at no additional charge through the 911 option on our telephone system.

**2) Remote Access Support**

Any travel required to support on-site service is not included.

Severity	Time Reported	Target Response Time	Response Method
1	7x24	<4 Hours	Phone Call (Follow-up with Remote Access Troubleshooting as Necessary)
2	Regular Hours	<3 Hours	Phone Call (Follow-up with Remote Access Troubleshooting as Necessary)
2	After Hours	Next Business Day	Phone Call (Follow-up with Remote Access Troubleshooting as Necessary)
3	Regular Hours	<8 Hours	Phone Call (Follow-up with Remote Access Troubleshooting as Necessary)  Phone Call

3	After Hours	Next Business Day	(Follow-up with Remote Access Troubleshooting as Necessary)
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The Customer acknowledges and understands that the Service Provider’s ability to respond within these times is dependent on the Customer’s fulfillment of its obligation to provide remote access. \* Response time targets are measured from receipt of first notification by telephone to our Main Office Number [(310) 787-7700] or toll-free number [(866) 869-7700]. For after hours calls follow our instructions for Emergency Service, directory 911. A page will go out to an on-call support provider.

\*\*Regular Hours are defined as Monday through Friday, 11 A.M. to 7 P.M. Pacific Time, excluding holidays. After Hours are all non-Regular Hours.

**Problem Severity Definitions**

- a. **Severity 1** – A Severity 1 Problem is a catastrophic failure that severely impacts the Customer’s ability to conduct its core business – i.e., the Customer’s Automatic Vehicle Locator and/or Mobile Data System are down or not functioning and no procedural workaround exists.
- b. **Severity 2** - A Severity 2 Problem is a high-impact Problem that disrupts important functions of the Customer’s operation, but the Customer can still remain productive and maintain necessary business-level operations.
- c. **Severity 3** - A Severity 3 Problem is a Problem that is of lesser magnitude than a Severity 1 or 2 Problem.

**Problem Resolution Targets**

- a. **Severity 1** - When working a “Severity 1” Problem, the objective is to resolve the Problem entirely or to downgrade the Problem’s Severity designation (i.e., provide Customer sufficient functionality so that the Problem may be reclassified as Severity 2 or 3) within 24 hours after the Problem is reported. Efforts to isolate, diagnose, and effect a work-around for, repair, or downgrade a “Severity 1” Problem shall be continuous (i.e., around-the-clock) between Customer, Service Provider and RSI (as needed), provided that Customer performs all of its obligations hereunder, including providing remote access to its systems. Periodic phone contact and progress updates will be provided at regular intervals during problem resolution. When the severity level has been changed to “Severity 2” or “Severity 3,” the guidelines cited below are followed.
- b. **Severity 2** – When working a “Severity 2” Problem, the objective is to have a solution and/or fix to the Customer within fifteen (15) business days. Efforts to isolate, diagnose, and affect a work-around or repair to a “Severity 2” Problem shall be continuous during Regular Hours. Customer resources may need to be available after hours and/or weekends upon mutual agreement between Customer and Service Provider, on a case-by-case basis.

c. **Severity 3** - When working a "Severity 3" Problem, the objective is to get the Customer a fix to the Problem or develop a workaround acceptable to the Customer within thirty (30) business days. Such a fix will typically be provided via a software patch or upgrade from RSI.

### **In-Vehicle Hardware Service**

Once the units are deemed faulty and in need of RMA:

- 1) RSI will issue an RMA number.
- 2) Customer is responsible for removing the unit from the vehicle. (RSI will train your staff, it is a relatively simple process.)
- 3) Customer is responsible for suitable packaging and shipment to RSI in Torrance, CA.
- 4) RSI will repair/replace the RMA unit at our discretion.
- 5) RSI will package and ship back to customer.
- 6) Customer is responsible for re-installing unit back in vehicle.

*Note: If it is a legitimate warranty issue, RSI will reinstall the device at no charge.*

*Note: RSI can optionally provide complete on-site service, on a pay-per-instance basis. This standard per visit cost is outlined in the Agreement.*

### **Performance Credits**

RSI shall provide prorated performance credits for monthly service fees in the event there are extended periods of unit inoperability or unavailability, which will be calculated as follows:

1. "Hourly Credit Rate" means the monthly service fee for an activated mobile device divided by seven hundred twenty (720) hours (e.g., 30 days multiplied by 24 hours).
2. "Unit Downtime" means the number of hours an activated device is unavailable or inoperable.
3. "Unit Credit" means the Unit Downtime multiplied by the Hourly Credit Rate.
4. In any given calendar month, where the total of all Unit Downtimes is more than ten thousand (10,000) hours, RSI shall apply a credit to the County's next invoice in an amount equal to the total of each Unit Downtimes multiplied by their respective Hourly Credit Rates.

### **1.2.8 Data Security and Compliance**

RSI will safeguard and secure the County's Data as required by all relevant laws, including HIPAA, HITECH, and the rules promulgated thereunder, as well as the Illinois Personal Information Protection Act. If protected Information is Criminal Justice Information Systems (CJIS) data as defined by CJIS; then all security and privacy requirements must be met as described in the standard. RSI will safeguard and secure the County's Data also as required by industry-standard best practices as updated, including Payment Card Industry ("PCI") Security Standards Council ("SSC") standards and National Institute of

Standards and Technology (“NIST”) 800-S3 revision 4 standards. RSI’s duties safeguard and secure as described in this Agreement is collectively “Data Security”.

Upon the effective date of this Agreement, annually thereafter, and upon reasonable written request by the County, and at RSI’s expense and with no cost to the County, RSI shall provide sufficient evidence of RSI’s Data Security. Specifically, and not to the exclusion of other evidence, such sufficient evidence shall include all validating documentation required to demonstrate compliance with NIST, CJIS, HIPAA/HITECH and PCI SSC standards where applicable.

To the extent that RSI relies upon, outsources to, or uses the services of third parties in the performance of RSI’s obligations under this Agreement, RSI shall ensure and assume all responsibility, and accompanying liability, that such third parties safeguard and secure County’s Data as required by law and in compliance with industry-standard best practices as updated.

#### **1.2.9 Data Retention, Delivery and Destruction**

All data must be stored only on computer systems located in the continental United States. RSI shall retrieve, retain, deliver and destroy the Deliverables, including Documents and data, in compliance with laws pertaining to the County, including but not limited to the Local Records Act as applicable or other applicable laws. Upon termination of the Agreement, whether upon expiration, upon breach, or otherwise, and at no cost to the County, RSI shall retrieve, retain, deliver, or destroy the Deliverables as the County directs. Under no circumstances, and regardless of any breach of this contract, shall RSI prevent the County from accessing and retrieving its Deliverables, Documents and data. In all cases, RSI shall provide reasonable assistance to Cook County in accessing and retrieving its Deliverables, Documents and data.

RSI agrees that upon termination of this Agreement it shall return all data (original and value added) to the County in a useable encrypted electronic form, and erase, destroy, and render unreadable all data in its entirety in accordance with this Agreement. Data must be rendered in a manner that prevents its physical reconstruction through the use of commonly available file restoration utilities. Certification in writing that these actions have been completed must be provided within 30 days of the termination of this Agreement or within 7 days of a request of an agent of the County, whichever shall come first.

Where disposal is approved, RSI agrees that prior to disposal or reuse of all magnetic media (e.g. hard disk, floppy disk, removable media, etc.) which may have contained County data shall be submitted to a data sanitization process which meets or exceeds DoD 5220.28-M 3-pass specifications. Certification of

the completion of data sanitization shall be provided to the County within 10 days of completion. Acceptance of Certification of Data Sanitization by the Chief Information Security Officer is required prior to media reuse or disposal. All other materials which contain County data shall be physically destroyed and shredded in accordance to NIST Special Publication 800-88.

#### **1.2.10 Third-Party Requests**

If RSI is served with a warrant, subpoena or any other order or request from a government body or any other person for any Deliverables, including Documents and data, RSI shall immediately deliver to Cook County a copy of such warrant, subpoena, order or request and will not produce documents or other Deliverables without the County's consent, to the extent allowable by law.

#### **1.2.11 Data Security Audits and Investigations**

The County's audit, access, and examination rights under this Agreement shall specifically include the following, not to the exclusion of any other rights the County may hold: At all times, the County has the right to access, examine and verify RSI's Data Security; Cook County may do so directly or through a third party of the County's choosing; Upon written request by the County, RSI shall provide to Cook County reasonably detailed, complete and accurate documentation describing the systems, processes, network segments, security controls, and dataflow relating to RSI's Data Security or Deliverables. RSI shall bear all internal costs for Cook County's reasonable requests.

On an annual basis, in the time and manner determined by the County's Chief Information Security Officer, RSI shall deliver to said Chief Information Security Officer its third-party security audit and its SSAE-16 audit. On the request of said Chief Information Security Officer, Contractor shall implement reasonable adjustments to its security controls.

#### **1.2.12 Incident Response**

RSI shall create and implement an incident response plan ("Incident Response Plan") addressing a third party's unauthorized access to the Deliverables, including Documents and data, under this Agreement ("Data Breach"). The Incident Response Plan shall, at a minimum: (a) meet all legal requirements including the Illinois Personal Information Protection Act and industry-standard best practices, including but not limited to PCI DSS compliance; (b) require that RSI immediately notify the County where it has reason to know of or receives notice that a Data Breach may have occurred; (c) require annual testing and preparedness exercises; and (d) specify that RSI assumes all liability and responsibility for investigating, responding to, and mitigating Data Breaches, but shall coordinate such response and mitigation with the County. The Incident Response Plan shall be subject to the County's approval. RSI shall provide a copy of the Incident Response Plan to the County upon execution of the Agreement.

**1.2.13 Logging and Auditing Capabilities**

The information system shall have sufficient auditing and logging controls to be able to reproduce in significant detail actions of all users, administrators and system accounts. Logs and audits must be exportable in a readable and usable format.

**1.2.14 Application Development and Configuration Practices**

RSI shall ensure that any application development, configuration, coding or similar practices it employs adhere to applicable best practices and standards regarding both data security and data privacy. RSI shall tender all Deliverables under this Agreement in a manner that reasonably protects the security, confidentiality and privacy of County Data and any individuals who may be considered data subjects as to the County, Deliverables, or County Data. Specifically, the proposer shall conform to the following:

- a. Microsoft Secure Coding Guidelines for the .NET Framework;
- b. CERT Secure Coding Standards;
- c. OWASP Secure Coding Principles;
- d. Privacy by design principles; and
- e. Federal Trade Commission’s Fair Information Practice Principles.

**1.2.15 Business Continuity and Recovery**

RSI shall have an automated backup and recovery capability for the system and application, including incremental and full backup capabilities. Additionally, system backups must be accomplished without taking the application out of service and without degradation of performance or disruption to County operations. RSI must be able to provide the service from at least two geographically diverse data centers that do not share common threats (e.g. the data centers cannot be in the same earthquake zone, likely hurricane path, same flood zone, etc.). The data centers must at a minimum meet Tier III standards for redundancy of power, telecommunications, HVAC, security, fire suppression and building integrity.

In the event of a technology or other failure at the primary processing center, the alternate system will meet the following tiers, for which the County’s use should be identical regardless of which location is processing the County’s work:

Category	Alternate system characteristics
Standard Availability	Available for County use within 48 hours with no degradation in service.

RSI shall implement crisis management, business continuity and disaster recovery plans, subject to County approval, which the County will not reasonably withhold. These plans must outline how the proposer will support the County’s recovery at the alternate site, including backup staff required to

implement the plan in an emergency if the proposer’s primary staff is unavailable. Such plans shall also include a minimum of annual testing in coordination with the County.

RSI’s system shall meet the following availability tiers, which tier, and must specifically describe how the System meets such tier:

Category	Availability	RTO	Characteristics & RPO
Standard Availability	99.741%	24 to 48 Hours	Nightly Data backups will be accomplished by automated means and transported via secured tunnels to geographically remote location.

**1.2.16 Transition Out and Exit**

RSI has reasonably foreseen all exit and transition out requirements and associated costs, including those related to time, documentation, RSI’s employees and County’s employees and has included such costs in the fixed fees set forth herein. At the termination of this agreement, and for [6] months thereafter, RSI shall tender County Data to the County as set forth in this Agreement. Thereafter and upon County request, RSI shall destroy County Data, including backups and copies thereof, according to NIST standards or as otherwise directed by the County.

**Appendix I (System Requirements)**

**2.2.9 Required Proposal Elements**

The Proposal shall present a solution specific to the functional capabilities and limitations of each category of vehicle, and provide one encompassing system of data collection, storage and reporting. The requested system will not require a hosted vendor application service for the display and visual tracking of the data.

**Comply.** RSI AVL is an enterprise level Web browser based AVL system that is accessed via Internet Explorer or Chrome using unique login and password. The remotely hosted RSI Base servers are based on SQL Server and manage all fleet data and archives and distributes the vehicle location and status information. The RSI AVL Application displays the current location and status of the vehicle fleet, along with address, route, and other attribute information, over both raster and vector-based maps (as desired).

**2.2.9.1 Hardware**

The Proposal will include justification, specifications, installation methodology, actual installation (including activation, de-activation and de-installation), maintenance plan (including repair and replacement), and equipment information regarding the establishment of all requisite hardware to support the system. Moreover, these details will describe the functional capabilities and limitations as it regards each category of vehicle as defined in the appropriate Appendices.

**Comply. RSI is proposing a variety of compatible and interchangeable mobile units that provide different functions, inputs, networks, etc. for each vehicle type and functional need. Please see the Proposal Section on the RSI Mobile Unit for a description of the various units.**

**Each RSI Mobile Unit will be equipped with a state-of-the-art 50 channel, WAAS enabled, all-in-view GPS receiver. This GPS receiver delivers superior performance and field-proven reliability and provides for fast signal reacquisition, position accuracy, and the filtering of spurious and erroneous data. The GPS accuracy is 2 meters (7 feet).**

**The RSI Mobile Unit comes with all bracketing, cabling, and connectors required for full installation. RSI configures the system so it cannot be easily disabled by the driver and/or user. RSI can be responsible for the installation of all equipment furnished under this contract. RSI will perform the installation and provide local support. RSI will require Cook County's cooperation and assistance in coordinating vehicle access and availability. See Installation.**

**Radio Satellite Integrators warrants all products against defects in materials and workmanship for a period of one year from the date of factory sale, or the term outlined in an extended warranty agreement. During the warranty period Radio Satellite Integrators provides the warranty service. Radio Satellite Integrators will, at its option, either repair or replace products which prove to be defective. RSI will provide either phone support or remote access support to help ensure smooth operation of the system. See Warranty and Service Response Plan.**

The Proposal will specify for the proposed GPS tracking devices including its type, description, features, and benefits. Specifications will also include mounting options and any wiring considerations. If any additional hardware is required for the operations of these devices, it will be included in this section. All wireless and network connectivity will be detailed. Regarding all of the above, a comprehensive installation plan including all necessary services will be outlined. Hardware maintenance specifications will include the manufacturer's warranty or any warranty options provided by RSI.

**Comply. RSI is proposing a variety of compatible and interchangeable mobile units that provide different functions, inputs, networks, etc. for each vehicle type and functional need. Please see the Proposal Section on the RSI Mobile Unit for a description of the various units.**

**The In-Vehicle Equipment is centered on a RSI Mobile Unit, a self-contained "black box" device integrating GPS location and sensor technologies, as well as wireless communications. The mobile device can be connected to any device or sensor including lights, ignition, doors open/closed, alarms, etc. RSI Mobile Units come with all necessary cabling and mounting. In addition, any variety of in-vehicle computing devices such as laptops or MDT's can be connected to the unit and mounted for a driver interface to the system.**

The solution may integrate with the existing telematics sensors installed on the aforementioned twenty CCDTH vehicles. Alternatively, RSI may recommend replacing these with its own sensor devices.

**Comply. The RSI Mobile Unit is capable of interfacing to a wide variety of external mobile data terminals, mobile computing devices, in-vehicle peripherals, and various sensor systems. The RSI Mobile Unit serves as a mobile gateway, paying particular attention to supporting a variety of devices. The RSI Mobile Unit will be connected to the on-board vehicle power and any sensor signals, to capture vehicle idle time, ignition on/off, armature up/down, PTO, speed, etc. Reports can be generated to cover these vehicle activities.**

#### **2.2.9.2 Software and Services**

The proposed solution must be compatible with Microsoft SQL Server and interface with the County's existing Esri-based GIS platform. The Proposal will include a detailed methodology for how positions and telematics are captured in real-time, including signal data format and system security (with recovery assurance), the effective method of transmitting or "pushing" signals to the County, and available signal interval update rates. This section should also include all benefits and limitations of the technology selected to transmit the data, with its associative costs and coverage area.

**Comply. RSI AVL is an enterprise level Web browser AVL system that is based on ESRI ArcGIS Server and accessed via Internet Explorer or Chrome using unique login and password. The remotely hosted RSI Base servers are based on SQL Server and manage all fleet data and archives and distributes the vehicle location and status information.**

The RSI AVL Mapping application is based on mapping and ArcGIS Server engines from ESRI. The RSI AVL system can use virtually any type of map data, but in particular our software can overlay our AVL information on your own ESRI GIS maps. The RSI AVL system relates real-time vehicle location and status data to the infrastructure, assets, boundaries, updates, routes, parcels, landmarks, and other critical elements of your constantly changing GIS map data. RSI has extensive experience working with ESRI data and environments in all forms (.shp files, SDE, etc.). As an option, RSI can actually access your GIS map data in real time via Map Services. The RSI AVL system has a tool that hyperlinks to Google Maps for Street View and other features.

**The RSI AVL system can update at virtually any rate. Update rates can adjust dynamically depending on factors such as vehicle status or the triggering of an on-board sensor. RSI suggests every 30 seconds, plus all events such as start, stop, turns, ignition, sensors, etc.**

A description of the solution's desktop, mobile and web components of the visualization tools will be provided. There will be a provision for a routing solution including support for County data geocoding standards, alerting utilities, and geofencing tools. With regards to telematics, a comprehensive list of trackable events for equipment and vehicle diagnostics will be itemized.

This Proposal will also include an accounting of its reporting capabilities including standard and ad hoc formats on supported database products. For CCDTH, the integration of various data managed by

Cityworks with the AVL visualization solution will be included. RSI will provide a comprehensive maintenance plan, including software upgrades and fixes, to accommodate all aspects of the solution as noted above. The scope, extent and duration of the terms and conditions will be included and costs will be listed in Appendix I.

**Comply.** The RSI AVL system uses Microsoft operating system and products and is accessed via the Internet Explorer or Chrome web browsers. The RSI AVL application can easily be accessed on any Windows based device. Additionally it can be accessed by smart phones and tablets running a simple remote desktop app. In addition, RSI has a simple mobile browser enabled tracking interface in the near future.

The RSI AVL Mapping application is based on mapping and ArcGIS Server engines from ESRI. The RSI AVL system can use virtually any type of map data, but in particular our software can overlay our AVL information on your own ESRI GIS maps. The RSI AVL system relates real-time vehicle location and status data to the infrastructure, assets, boundaries, updates, routes, parcels, landmarks, and other critical elements of your constantly changing GIS map data. RSI has extensive experience working with ESRI data and environments in all forms (.shp files, SDE, etc.). As an option, RSI can actually access your GIS map data in real time via Map Services. The RSI AVL system has a tool that hyperlinks to Google Maps for Street View and other features. Additionally RSI AVL can use Bing Maps if GIS is not desired.

The map window can be set to display a particular area, route, stop, or address, or to track a specific sub-set of the entire fleet (from the entire fleet to an individual vehicle). In RSI AVL the map display window possesses a full-set of map manipulation and query functionality. Map manipulation tools and buttons are available to zoom, pan, and center the display on a particular vehicle, route, stop, or address. Additional tools are available to enable or disable labeling, to customize the map display according to user preferences, and to enter points and attributes (for incidents, etc.). Map query options include the ability to locate an address, vehicle, or stop, along with the capability to identify the closest available vehicle(s) to any entered point, or address.

The RSI AVL system allows authorized administrators extensive control over system features including alerts and alarms. The system can be configured to notify selected users when specific events occur with any of the vehicles. This includes geofences, hours of operation, idle, panic buttons, etc. Notifications can be sent as an e-mail, SMS, or to the alert screen on the software.

The RSI AVL system allows the user to set geo-fences on the map display. This geofence will create an alert and/or exception report when breached and will appear as another item of status data with each vehicle position report. Geofences can be created as polygons or a configurable radius from a specific point, as well as created from existing boundaries, landmarks or zones within your GIS.

Radio Satellite Integrators warrants all products against defects in materials and workmanship for a period of one year from the date of factory sale, or the term outlined in an extended warranty agreement. During the warranty period Radio Satellite Integrators provides the warranty service. Radio Satellite Integrators will, at its option, either repair or replace

**products which prove to be defective. RSI will provide either phone support or remote access support to help ensure smooth operation of the system. See Warranty and Service Response Plan.**

The Proposal will outline services offered for an application service provider (ASP) solution for the GPS/AVL/telemetry data, excluding a required viewing application. The County will entertain a traditional hosted solution that manages the GPS data but is also open to alternatives, including the direct transmission of said GPS data to the County for its hosting. Any of these proposed services will require a full methodology and implementation plan to ensure the delivery of a fully integrated and operational system.

**Comply. RSI AVL is an enterprise level Web browser AVL system that is based on ESRI ArcGIS Server and accessed via Internet Explorer or Chrome using unique login and password. The remotely hosted RSI Base servers are based on SQL Server and manage all fleet data and archives and distributes the vehicle location and status information. Through simple customization, real time data can be sent or streamed virtually anywhere for customer access in virtually any format including to an Oracle database. (ie. TCP/IP, ESRI Map Services, Web Services, etc.)**

#### **2.2.9.3 Quality Control and Assurance**

All internal quality control measures for all tasks will be detailed in the appropriate sections.

RSI will provide a methodology to manage the quality control and assurance of all deliverable items to be accepted by the County. RSI will detail all procedures and any tool(s) that would facilitate the tracking of the passing of the deliveries and the communication of errors and comments between the RSI and the County.

**Comply. Please see Methodology section of the proposal.**

#### **2.2.9.4 Project Schedule**

RSI will provide a project schedule of sufficient detail including all tasks and major milestones. In general, the County seeks good reasoning for justifying the proposed schedule and how it will best serve the interests of the County.

**Comply. See Methodology for an example project time line. It is impossible to create an accurate timeline at this point since there are so many variables that can affect the scheduling of various events. We have included a preliminary/example time line in the Implementation section of this proposal.**

#### **2.2.9.5 Deliverables**

##### **2.2.9.5.1 Hardware and Hardware Implementation**

All requisite devices, wiring, mounts and other components to support vehicle or device tracking as outlined in Section 2.2.9.1.

**Comply. All wiring and mounts will be included.**

#### **2.2.9.5.2 Software and Services**

All requisite services to support data and signal management, visualization, routing, telemetry, and reporting as outlined in Section 2.2.9.2.

**Comply. Please see Technical Overview of all Software functionality.**

#### **2.2.9.5.3 Maintenance**

Comprehensive maintenance plan for both hardware and software/services components.

**Comply. Since the RSI AVL system is a hosted SAAS system, it is constantly being monitored for health and operation. RSI technical support is available 24-7 through toll free number. RSI will provide either phone support or remote access support to help ensure smooth operation of the system. For hardware support, RSI can either train County staff on simple swapping of units using spares (quickest, easiest, and cheapest way) or we can use our local subcontractors to service units. (this requires County staff assistance for vehicle and facility access). Please see the section of the proposal entitled Service Response Plan.**

#### **2.2.9.5.4 Documentation**

All requisite documentation related to the project.

**Comply. RSI will supply the specified manuals and documentation in both hard and soft copy**

#### **2.2.10 Key Personnel**

RSI must identify the key personnel that will be committed to the project. The Chief Procurement Officer reserves the right to reject any key personnel proposed if it is determined in the County's best interest. All key personnel must be committed to the project without competing priorities. The evaluation of proposals includes the qualifications of the personnel proposed; therefore, proposers will name key personnel as part of their proposal.

Key Personnel must not be replaced during the project without the approval of the Chief Procurement Officer.

**Comply. See Key RSI Staff.**

#### **2.2.11 Subcontracting or Teaming**

RSI may be comprised of one or more firms as to assure the overall success of the project. The firm shall identify each team member and specify their role. The Chief

Procurement Officer reserves the right to accept or reject any of the team members if, in the County's sole opinion, the replacement of the team member, based on skills and knowledge, is in the best interest of the County.

**Comply. RSI has identified an MBE subcontractor that can assist in the installation of mobile equipment as well as local onsite support of the mobile hardware.**

**Trinity Technology Services & Applied Controls & Contracting Services  
539 W. Taft Dr.  
South Holland, IL 60430-2030**

EXHIBIT 2

Schedule of Compensation



**Public Safety**  
**Integrators, Inc.**



**Cook County**  
Automatic Vehicle Location  
RFP #12-28-318- PRICING

02/03/14

	TRANSPORTATION & HIGHWAY	ENVIRONMENTAL CONTROL	BUREAU OF TECHNOLOGY	BUREAU OF REVENUE	DEPT OF HOMELAND SEC & EMERGENCY MGMT	DEPT OF BUILDING & ZONING	FOREST PRESERVE DISTRICT	Initial Training, Travel & Shipping	TOTAL
Quantity of Units	320	16	24	2	39	18	396		815
Unit Total Cost	\$ 75,200	\$ 3,760	\$ 5,640	\$ 470	\$ 9,165	\$ 4,230	\$ 93,060		\$ 191,525
Install Total Cost	\$ 40,000	\$ 2,000	\$ 3,000	\$ 250	\$ 4,875	\$ 2,250	\$ 49,500		\$ 101,875
Service Monthly Total	\$ 8,960	\$ 448	\$ 672	\$ 56	\$ 1,092	\$ 504	\$ 11,088		\$ 22,820
Service Annual Total	\$ 107,520	\$ 5,376	\$ 8,064	\$ 672	\$ 13,104	\$ 6,048	\$ 133,056		\$ 273,840
Extended Warranty Total (after year one)	\$ 6,400	\$ 320	\$ 480	\$ 40	\$ 780	\$ 360	\$ 7,920		\$ 16,300
Year One	\$ 222,720	\$ 11,136	\$ 16,704	\$ 1,392	\$ 27,144	\$ 12,528	\$ 275,616	\$ 9,000	\$ 576,240
Year Two	\$ 113,920	\$ 5,696	\$ 8,544	\$ 712	\$ 13,884	\$ 6,408	\$ 140,976		\$ 290,140
Year Three	\$ 113,920	\$ 5,696	\$ 8,544	\$ 712	\$ 13,884	\$ 6,408	\$ 140,976		\$ 290,140
Year Four	\$ 113,920	\$ 5,696	\$ 8,544	\$ 712	\$ 13,884	\$ 6,408	\$ 140,976		\$ 290,140
Year Five	\$ 113,920	\$ 5,696	\$ 8,544	\$ 712	\$ 13,884	\$ 6,408	\$ 140,976		\$ 290,140
*Years 2-5 include service fees and extended warranty									
Five Year Total	\$ 678,400	\$ 33,920	\$ 50,880	\$ 4,240	\$ 82,680	\$ 38,160	\$ 839,520	\$ 9,000	\$ 1,736,800



**Radio  
Satellite  
Integrators, Inc.**



01/31/13

**Cook County  
Automatic Vehicle Location  
RFP #12-28-318- PRICING**

MOBILE HARDWARE				
TBD quantity		per unit		total
1	RSI MOBILE UNIT (LMU 4220) (Verizon CDMA) <i>Mobile Units Configured for public data network (Verizon) Includes: antenna, cabling, mount.</i>	\$	235 each	\$ 235
1	ENGINE DIAGNOSTIC DATA INTERFACE ADD-ON (OBDII Light Duty)	\$	125 each	\$ 125
1	ENGINE DIAGNOSTIC DATA INTERFACE ADD-ON (JBus Heavy Duty)	\$	230 each	\$ 230
<b>1</b>	<b>MOBILE UNIT INSTALLATION PER VEHICLE</b>	<b>\$</b>	<b>125 each</b>	<b>\$ 125</b>
	Un-Install	\$	95 each	
	On-Site Service of Unit	\$	125 each	

MONTHLY WEB TRACKING SERVICE FEES				
TBD quantity		per unit		total
1	RSI AVL WEB TRACKING SERVICE FEES (per Month per Device) RSI AVL Web Browser Based ESRI ArcGIS Server Mapping & Reporting <b>Includes wireless service and unlimited Web software access.</b> Service fees are calculated per vehicle per month. Assumes 30 second update rate, plus stops, starts, turns, and events. Other update rates available as an option. Monthly tracking fee per device excluding wireless data: \$20	\$	28 each	\$ 28

ALTERNATIVE MOBILE UNITS				
TBD quantity		per unit		total
1	RSI MOBILE UNIT (LMU 5000) (Verizon EVDO Rev A -3G) <i>Mobile Units Configured for public data network (Verizon)</i> <i>Includes: antenna, cabling, mount.</i> <i>Requires separate wireless data plan.</i>	\$	645 each	\$ 645
1	RSI MOBILE UNIT (TTU) (Verizon CDMA) <i>Mobile Units Configured for public data network (Verizon)</i> <i>Includes: antenna, cabling, mount.</i>	\$	295 each	\$ 295
1	RSI MOBILE UNIT (LMU 3000) (Verizon CDMA) <i>Mobile Units Configured for public data network (Verizon)</i> <i>Includes: antenna, cabling, mount.</i>	\$	325 each	\$ 325
1	RSI MOBILE UNIT (Vanguard 3G) (Verizon EVDO Rev A- 3G) <i>Mobile Units Configured for public data network (Verizon)</i> <i>Includes: antenna, cabling, mount.</i> <i>Requires separate wireless data plan.</i>	\$	995 each	\$ 995

ADDITIONAL SYSTEM OPTIONS				
TBD quantity		per unit		total
3	DAYS ONSITE TRAINING	\$	1,250 each	\$ 3,750
20	RSI Interface to Spreader Controllers <i>RSI portion of spreader controller interface only.</i> <i>Does not include any add'l costs that <b>may</b> be required from third party</i>	\$	250 each	\$ 5,000
1	Sensor Integration to existing on-vehicle sensor (broom, plow, PTO, etc)	\$	50 each	\$ 50
1	RSI CUSTOMIZED GARMIN MDTs w/ Navigation <i>Customized messaging and navigation device</i> <i>Includes Mount, Cabling, &amp; Customization</i>	\$	695 each	\$ 695
1	WiFi Add-On to LMU 4220 Unit	\$	275 each	\$ 275
1	Real Time Data Feed to Third Party System	TBD	each	\$ -
1	Emergency Buttons Hard-wired On-Vehicle Button	\$	145 each	\$ 145
1	Emergency Buttons Wireless Handheld Medallion	\$	195 each	\$ 195
1	RF ID Reader (Driver ID)	\$	295 each	\$ 295
1	Magnetic Card Stripe Reader (Driver ID)	\$	150 each	\$ 150
1	iButton/Key Fob Reader (Driver ID)	\$	150 each	\$ 150
1	LOT SHIPPING	TBD	each	\$ -
1	LOT TRAVEL EXPENSES	\$	1,500 each	\$ 1,500
1	EXTENDED ANNUAL WARRANTY ON HARDWARE (per unit) <i>Past year one.</i>	\$	20 each	\$ 20

**CONFIDENTIAL**

*Service fees to be paid annually in advance.*

*Does not include any applicable sales tax.*

*Bonding may incur additional fees.*

*Minimum Order Quantities may apply for some products.*

*Includes all manuals and documentation*



**Radio  
Satellite  
Integrators, Inc.**



04/08/13

**Cook County**  
Automatic Vehicle Location  
RFP #12-28-318- PRICING

**TRANSPORTATION & HIGHWAY**

<b>MOBILE HARDWARE</b>					
TBD quantity		per unit			total
320	RSI MOBILE UNIT (LMU 4220) (Verizon CDMA) <i>Mobile Units Configured for public data network (Verizon)</i> <i>Includes: antenna, cabling, mount.</i>	\$	235	each	\$ 75,200
<b>320</b>	<b>MOBILE UNIT INSTALLATION PER VEHICLE</b>	<b>\$</b>	<b>125</b>	<b>each</b>	<b>\$ 40,000</b>
	Un-Install	\$	95	each	
	On-Site Service of Unit	\$	125	each	

<b>MONTHLY WEB TRACKING SERVICE FEES</b>					
TBD quantity		per unit			total
320	RSI AVL WEB TRACKING SERVICE FEES (per Month per Device) RSI AVL Web Browser Based ESRI ArcGIS Server Mapping & Reporting <b>Includes wireless service and unlimited Web software access.</b> Service fees are calculated per vehicle per month.	\$	28	each	\$ 8,960
	Assumes 30 second update rate, plus stops, starts, turns, and events.		Annual SW Service	\$	107,520
	Other update rates available as an option.		Year One Total (w hardware)	\$	222,720
	Monthly tracking fee per device excluding wireless data: \$20		Year 2-5 Annual	\$	113,920

**ALTERNATIVE MOBILE UNITS**

TBD quantity		per unit		total
1	RSI MOBILE UNIT (LMU 5000) (Verizon EVDO Rev A -3G) <i>Mobile Units Configured for public data network (Verizon) Includes: antenna, cabling, mount. Requires separate wireless data plan.</i>	\$	645 each	\$ 645
1	RSI MOBILE UNIT (TTU) (Verizon CDMA) <i>Mobile Units Configured for public data network (Verizon) Includes: antenna, cabling, mount.</i>	\$	295 each	\$ 295
1	RSI MOBILE UNIT (LMU 3000) (Verizon CDMA) <i>Mobile Units Configured for public data network (Verizon) Includes: antenna, cabling, mount.</i>	\$	325 each	\$ 325
1	RSI MOBILE UNIT (Vanguard 3G) (Verizon EVDO Rev A- 3G) <i>Mobile Units Configured for public data network (Verizon) Includes: antenna, cabling, mount. Requires separate wireless data plan.</i>	\$	995 each	\$ 995

**ADDITIONAL SYSTEM OPTIONS**

TBD quantity		per unit		total
5	DAYS ONSITE TRAINING (All Depts)	\$	1,250 each	\$ 6,250
1	LOT SHIPPING (All Depts)	\$	1,250 each	\$ 1,250
1	LOT TRAVEL EXPENSES (All Depts)	\$	1,500 each	\$ 1,500
320	EXTENDED ANNUAL WARRANTY ON HARDWARE (per unit) <i>Past year one.</i>	\$	20 each	\$ 6,400
1	ENGINE DIAGNOSTIC DATA INTERFACE ADD-ON (OBDII Light Duty)	\$	125 each	\$ 125
1	ENGINE DIAGNOSTIC DATA INTERFACE ADD-ON (JBus Heavy Duty)	\$	230 each	\$ 230
20	RSI Interface to Spreader Controllers <i>RSI portion of spreader controller interface only. Does not include any add'l costs that may be required from third party</i>	\$	250 each	\$ 5,000
1	Sensor Integration to existing on-vehicle sensor (broom, plow, PTO, etc)	\$	50 each	\$ 50
1	RSI CUSTOMIZED GARMIN MDTs w/ Navigation <i>Customized messaging and navigation device Includes Mount, Cabling, &amp; Customization</i>	\$	695 each	\$ 695
1	WiFi Add-On to LMU 4220 Unit	\$	275 each	\$ 275
1	Real Time Data Feed to Third Party System	TBD	each	\$ -
1	Emergency Buttons Hard-wired On-Vehicle Button	\$	145 each	\$ 145
1	Emergency Buttons Wireless Handheld Medallion	\$	195 each	\$ 195
1	RF ID Reader (Driver ID)	\$	295 each	\$ 295
1	Magnetic Card Stripe Reader (Driver ID)	\$	150 each	\$ 150
1	iButton/Key Fob Reader (Driver ID)	\$	150 each	\$ 150

**CONFIDENTIAL**

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**Radio  
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**Cook County**  
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**ENVIRONMENTAL CONTROL**

<b>MOBILE HARDWARE</b>					
TBD quantity			per unit		total
16	RSI MOBILE UNIT (LMU 4220) (Verizon CDMA) <i>Mobile Units Configured for public data network (Verizon)</i> <i>Includes: antenna, cabling, mount.</i>	\$	235 each	\$	3,760
<b>16</b>	<b>MOBILE UNIT INSTALLATION PER VEHICLE</b>	<b>\$</b>	<b>125 each</b>	<b>\$</b>	<b>2,000</b>
	Un-Install	\$	95 each		
	On-Site Service of Unit	\$	125 each		

<b>MONTHLY WEB TRACKING SERVICE FEES</b>					
TBD quantity			per unit		total
16	RSI AVL WEB TRACKING SERVICE FEES (per Month per Device) RSI AVL Web Browser Based ESRI ArcGIS Server Mapping & Reporting <b>Includes wireless service and unlimited Web software access.</b> Service fees are calculated per vehicle per month. Assumes 30 second update rate, plus stops, starts, turns, and events. Other update rates available as an option. Monthly tracking fee per device excluding wireless data: \$20	\$	28 each	\$	448
			Annual SW Service	\$	5,376
			Year One Total (w hardware)	\$	11,136
			Year 2-5 Annual	\$	5,696

ALTERNATIVE MOBILE UNITS				
TBD quantity		per unit		total
1	RSI MOBILE UNIT (LMU 5000) (Verizon EVDO Rev A -3G) <i>Mobile Units Configured for public data network (Verizon)</i> <i>Includes: antenna, cabling, mount.</i> <i>Requires separate wireless data plan.</i>	\$	645 each	\$ 645
1	RSI MOBILE UNIT (TTU) (Verizon CDMA) <i>Mobile Units Configured for public data network (Verizon)</i> <i>Includes: antenna, cabling, mount.</i>	\$	295 each	\$ 295
1	RSI MOBILE UNIT (LMU 3000) (Verizon CDMA) <i>Mobile Units Configured for public data network (Verizon)</i> <i>Includes: antenna, cabling, mount.</i>	\$	325 each	\$ 325
1	RSI MOBILE UNIT (Vanguard 3G) (Verizon EVDO Rev A- 3G) <i>Mobile Units Configured for public data network (Verizon)</i> <i>Includes: antenna, cabling, mount.</i> <i>Requires separate wireless data plan.</i>	\$	995 each	\$ 995

ADDITIONAL SYSTEM OPTIONS				
TBD quantity		per unit		total
5	DAYS ONSITE TRAINING (All Depts)	\$	1,250 each	\$ 6,250
1	LOT SHIPPING (All Depts)	\$	1,250 each	\$ 1,250
1	LOT TRAVEL EXPENSES (All Depts)	\$	1,500 each	\$ 1,500
16	EXTENDED ANNUAL WARRANTY ON HARDWARE (per unit) <i>Past year one.</i>	\$	20 each	\$ 320
1	ENGINE DIAGNOSTIC DATA INTERFACE ADD-ON (OBDII Light Duty)	\$	125 each	\$ 125
1	ENGINE DIAGNOSTIC DATA INTERFACE ADD-ON (JBus Heavy Duty)	\$	230 each	\$ 230
1	Sensor Integration to existing on-vehicle sensor (broom, plow, PTO, etc)	\$	50 each	\$ 50
1	RSI CUSTOMIZED GARMIN MDTs w/ Navigation <i>Customized messaging and navigation device</i> <i>Includes Mount, Cabling, &amp; Customization</i>	\$	695 each	\$ 695
1	WiFi Add-On to LMU 4220 Unit	\$	275 each	\$ 275
1	Real Time Data Feed to Third Party System	TBD	each	\$ -
1	Emergency Buttons Hard-wired On-Vehicle Button	\$	145 each	\$ 145
1	Emergency Buttons Wireless Handheld Medallion	\$	195 each	\$ 195
1	RF ID Reader (Driver ID)	\$	295 each	\$ 295
1	Magnetic Card Stripe Reader (Driver ID)	\$	150 each	\$ 150
1	iButton/Key Fob Reader (Driver ID)	\$	150 each	\$ 150

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*Includes all manuals and documentation*



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**BUREAU OF TECHNOLOGY**

<b>MOBILE HARDWARE</b>				
TBD quantity		per unit		total
24	<b>RSI MOBILE UNIT (LMU 4220) (Verizon CDMA)</b> <i>Mobile Units Configured for public data network (Verizon)</i> <i>Includes: antenna, cabling, mount.</i>	\$	235 each	\$ 5,640
24	<b>MOBILE UNIT INSTALLATION PER VEHICLE</b>	\$	125 each	\$ 3,000
	Un-Install	\$	95 each	
	On-Site Service of Unit	\$	125 each	

<b>MONTHLY WEB TRACKING SERVICE FEES</b>				
TBD quantity		per unit		total
24	<b>RSI AVL WEB TRACKING SERVICE FEES (per Month per Device)</b> RSI AVL Web Browser Based ESRI ArcGIS Server Mapping & Reporting <b>Includes wireless service and unlimited Web software access.</b> Service fees are calculated per vehicle per month.	\$	28 each	\$ 672
	Assumes 30 second update rate, plus stops, starts, turns, and events.		Annual SW Service	\$ 8,064
	Other update rates available as an option.		Year One Total (w hardware)	\$ 16,704
	Monthly tracking fee per device excluding wireless data: \$20		Year 2-5 Annual	\$ 8,544

ALTERNATIVE MOBILE UNITS					
TBD quantity			per unit		total
1	RSI MOBILE UNIT ( <b>LMU 5000</b> ) (Verizon EVDO Rev A -3G) <i>Mobile Units Configured for public data network (Verizon)</i> <i>Includes: antenna, cabling, mount.</i> <i>Requires separate wireless data plan.</i>	\$	645	each	\$ 645
1	RSI MOBILE UNIT ( <b>TTU</b> ) (Verizon CDMA) <i>Mobile Units Configured for public data network (Verizon)</i> <i>Includes: antenna, cabling, mount.</i>	\$	295	each	\$ 295
1	RSI MOBILE UNIT ( <b>LMU 3000</b> ) (Verizon CDMA) <i>Mobile Units Configured for public data network (Verizon)</i> <i>Includes: antenna, cabling, mount.</i>	\$	325	each	\$ 325
1	RSI MOBILE UNIT ( <b>Vanguard 3G</b> ) (Verizon EVDO Rev A- 3G) <i>Mobile Units Configured for public data network (Verizon)</i> <i>Includes: antenna, cabling, mount.</i> <i>Requires separate wireless data plan.</i>	\$	995	each	\$ 995

ADDITIONAL SYSTEM OPTIONS					
TBD quantity			per unit		total
5	DAYS ONSITE TRAINING (All Depts)	\$	1,250	each	\$ 6,250
1	LOT SHIPPING (All Depts)	\$	1,250	each	\$ 1,250
1	LOT TRAVEL EXPENSES (All Depts)	\$	1,500	each	\$ 1,500
24	EXTENDED ANNUAL WARRANTY ON HARDWARE (per unit) <i>Past year one.</i>	\$	20	each	\$ 480
1	ENGINE DIAGNOSTIC DATA INTERFACE ADD-ON (OBDII Light Duty)	\$	125	each	\$ 125
1	ENGINE DIAGNOSTIC DATA INTERFACE ADD-ON (JBus Heavy Duty)	\$	230	each	\$ 230
1	Sensor Integration to existing on-vehicle sensor (broom, plow, PTO, etc)	\$	50	each	\$ 50
1	RSI CUSTOMIZED GARMIN MDTs w/ Navigation <i>Customized messaging and navigation device</i> <i>Includes Mount, Cabling, &amp; Customization</i>	\$	695	each	\$ 695
1	WiFi Add-On to LMU 4220 Unit	\$	275	each	\$ 275
1	Real Time Data Feed to Third Party System	TBD		each	\$ -
1	Emergency Buttons Hard-wired On-Vehicle Button	\$	145	each	\$ 145
1	Emergency Buttons Wireless Handheld Medallion	\$	195	each	\$ 195
1	RF ID Reader (Driver ID)	\$	295	each	\$ 295
1	Magnetic Card Stripe Reader (Driver ID)	\$	150	each	\$ 150
1	iButton/Key Fob Reader (Driver ID)	\$	150	each	\$ 150

**CONFIDENTIAL**

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*Includes all manuals and documentation*



**Radio  
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Integrators, Inc.**



**Cook County**  
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**BUREAU OF REVENUE**

<b>MOBILE HARDWARE</b>				
TBD quantity		per unit		total
2	RSI MOBILE UNIT (LMU 4220) (Verizon CDMA) <i>Mobile Units Configured for public data network (Verizon)</i> <i>Includes: antenna, cabling, mount.</i>	\$	235 each	\$ 470
<b>2</b>	<b>MOBILE UNIT INSTALLATION PER VEHICLE</b>	\$	125 each	\$ 250
	Un-Install	\$	95 each	
	On-Site Service of Unit	\$	125 each	

<b>MONTHLY WEB TRACKING SERVICE FEES</b>				
TBD quantity		per unit		total
2	RSI AVL WEB TRACKING SERVICE FEES (per Month per Device) RSI AVL Web Browser Based ESRI ArcGIS Server Mapping & Reporting <b>Includes wireless service and unlimited Web software access.</b> Service fees are calculated per vehicle per month.	\$	28 each	\$ 56
	Assumes 30 second update rate, plus stops, starts, turns, and events.		Annual SW Service	\$ 672
	Other update rates available as an option.		Year One Total (w hardware)	\$ 1,392
	Monthly tracking fee per device excluding wireless data: \$20		Year 2-5 Annual	\$ 712

**ALTERNATIVE MOBILE UNITS**

TBD quantity		per unit			total
1	RSI MOBILE UNIT (LMU 5000) (Verizon EVDO Rev A -3G) <i>Mobile Units Configured for public data network (Verizon)</i> <i>Includes: antenna, cabling, mount.</i> <i>Requires separate wireless data plan.</i>	\$	645	each	\$ 645
1	RSI MOBILE UNIT (TTU) (Verizon CDMA) <i>Mobile Units Configured for public data network (Verizon)</i> <i>Includes: antenna, cabling, mount.</i>	\$	295	each	\$ 295
1	RSI MOBILE UNIT (LMU 3000) (Verizon CDMA) <i>Mobile Units Configured for public data network (Verizon)</i> <i>Includes: antenna, cabling, mount.</i>	\$	325	each	\$ 325
1	RSI MOBILE UNIT (Vanguard 3G) (Verizon EVDO Rev A- 3G) <i>Mobile Units Configured for public data network (Verizon)</i> <i>Includes: antenna, cabling, mount.</i> <i>Requires separate wireless data plan.</i>	\$	995	each	\$ 995

**ADDITIONAL SYSTEM OPTIONS**

TBD quantity		per unit			total
5	DAYS ONSITE TRAINING (All Depts)	\$	1,250	each	\$ 6,250
1	LOT SHIPPING (All Depts)	\$	1,250	each	\$ 1,250
1	LOT TRAVEL EXPENSES (All Depts)	\$	1,500	each	\$ 1,500
2	EXTENDED ANNUAL WARRANTY ON HARDWARE (per unit) <i>Past year one.</i>	\$	20	each	\$ 40
1	ENGINE DIAGNOSTIC DATA INTERFACE ADD-ON (OBDII Light Duty)	\$	125	each	\$ 125
1	ENGINE DIAGNOSTIC DATA INTERFACE ADD-ON (JBus Heavy Duty)	\$	230	each	\$ 230
1	Sensor Integration to existing on-vehicle sensor (broom, plow, PTO, etc)	\$	50	each	\$ 50
1	RSI CUSTOMIZED GARMIN MDTs w/ Navigation <i>Customized messaging and navigation device</i> <i>Includes Mount, Cabling, &amp; Customization</i>	\$	695	each	\$ 695
1	WiFi Add-On to LMU 4220 Unit	\$	275	each	\$ 275
1	Real Time Data Feed to Third Party System	TBD		each	\$ -
1	Emergency Buttons Hard-wired On-Vehicle Button	\$	145	each	\$ 145
1	Emergency Buttons Wireless Handheld Medallion	\$	195	each	\$ 195
1	RF ID Reader (Driver ID)	\$	295	each	\$ 295
1	Magnetic Card Stripe Reader (Driver ID)	\$	150	each	\$ 150
1	iButton/Key Fob Reader (Driver ID)	\$	150	each	\$ 150

**CONFIDENTIAL**

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*Does not include any applicable sales tax.*

*Bonding may incur additional fees.*

*Minimum Order Quantities may apply for some products.*

*Includes all manuals and documentation*



**Radio  
Satellite  
Integrators, Inc.**



**Cook County**  
**Automatic Vehicle Location**  
**RFP #12-28-318- PRICING**

04/08/13

**DEPT OF HOMELAND SEC & EMERGENCY MGMT**

<b>MOBILE HARDWARE</b>				
TBD quantity		per unit		total
39	RSI MOBILE UNIT (LMU 4220) (Verizon CDMA) <i>Mobile Units Configured for public data network (Verizon)</i> <i>Includes: antenna, cabling, mount.</i>	\$	235 each	\$ 9,165
<b>39</b>	<b>MOBILE UNIT INSTALLATION PER VEHICLE</b>	<b>\$</b>	<b>125 each</b>	<b>\$ 4,875</b>
	Un-Install	\$	95 each	
	On-Site Service of Unit	\$	125 each	

<b>MONTHLY WEB TRACKING SERVICE FEES</b>				
TBD quantity		per unit		total
39	RSI AVL WEB TRACKING SERVICE FEES (per Month per Device) RSI AVL Web Browser Based ESRI ArcGIS Server Mapping & Reporting <b>Includes wireless service and unlimited Web software access.</b> Service fees are calculated per vehicle per month.	\$	28 each	\$ 1,092
	Assumes 30 second update rate, plus stops, starts, turns, and events.		Annual SW Service	\$ 13,104
	Other update rates available as an option.		Year One Total (w hardware)	\$ 27,144
	Monthly tracking fee per device excluding wireless data: \$20		Year 2-5 Annual	\$ 13,884

**ALTERNATIVE MOBILE UNITS**

TBD quantity		per unit		total
1	RSI MOBILE UNIT ( <b>LMU 5000</b> ) (Verizon EVDO Rev A -3G) <i>Mobile Units Configured for public data network (Verizon)</i> <i>Includes: antenna, cabling, mount.</i> <i>Requires separate wireless data plan.</i>	\$	645 each	\$ 645
1	RSI MOBILE UNIT ( <b>TTU</b> ) (Verizon CDMA) <i>Mobile Units Configured for public data network (Verizon)</i> <i>Includes: antenna, cabling, mount.</i>	\$	295 each	\$ 295
1	RSI MOBILE UNIT ( <b>LMU 3000</b> ) (Verizon CDMA) <i>Mobile Units Configured for public data network (Verizon)</i> <i>Includes: antenna, cabling, mount.</i>	\$	325 each	\$ 325
1	RSI MOBILE UNIT ( <b>Vanguard 3G</b> ) (Verizon EVDO Rev A- 3G) <i>Mobile Units Configured for public data network (Verizon)</i> <i>Includes: antenna, cabling, mount.</i> <i>Requires separate wireless data plan.</i>	\$	995 each	\$ 995

**ADDITIONAL SYSTEM OPTIONS**

TBD quantity		per unit		total
5	DAYS ONSITE TRAINING (All Depts)	\$	1,250 each	\$ 6,250
1	LOT SHIPPING (All Depts)	\$	1,250 each	\$ 1,250
1	LOT TRAVEL EXPENSES (All Depts)	\$	1,500 each	\$ 1,500
39	EXTENDED ANNUAL WARRANTY ON HARDWARE (per unit) <i>Past year one.</i>	\$	20 each	\$ 780
1	ENGINE DIAGNOSTIC DATA INTERFACE ADD-ON (OBDII Light Duty)	\$	125 each	\$ 125
1	ENGINE DIAGNOSTIC DATA INTERFACE ADD-ON (JBus Heavy Duty)	\$	230 each	\$ 230
1	Sensor Integration to existing on-vehicle sensor (broom, plow, PTO, etc)	\$	50 each	\$ 50
1	RSI CUSTOMIZED GARMIN MDTs w/ Navigation <i>Customized messaging and navigation device</i> <i>Includes Mount, Cabling, &amp; Customization</i>	\$	695 each	\$ 695
1	WiFi Add-On to LMU 4220 Unit	\$	275 each	\$ 275
1	Real Time Data Feed to Third Party System	TBD	each	\$ -
1	Emergency Buttons Hard-wired On-Vehicle Button	\$	145 each	\$ 145
1	Emergency Buttons Wireless Handheld Medallion	\$	195 each	\$ 195
1	RF ID Reader (Driver ID)	\$	295 each	\$ 295
1	Magnetic Card Stripe Reader (Driver ID)	\$	150 each	\$ 150
1	iButton/Key Fob Reader (Driver ID)	\$	150 each	\$ 150

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**Radio  
Satellite  
Integrators, Inc.**



**Cook County**  
Automatic Vehicle Location  
RFP #12-28-318- PRICING

04/08/13

**DEPT OF BUILDING & ZONING**

<b>MOBILE HARDWARE</b>				
TBD quantity		per unit		total
18	RSI MOBILE UNIT (LMU 4220) (Verizon CDMA) <i>Mobile Units Configured for public data network (Verizon)</i> <i>Includes: antenna, cabling, mount.</i>	\$	235 each	\$ 4,230
<b>18</b>	<b>MOBILE UNIT INSTALLATION PER VEHICLE</b>	<b>\$</b>	<b>125 each</b>	<b>\$ 2,250</b>
	Un-Install	\$	95 each	
	On-Site Service of Unit	\$	125 each	

<b>MONTHLY WEB TRACKING SERVICE FEES</b>				
TBD quantity		per unit		total
18	RSI AVL WEB TRACKING SERVICE FEES (per Month per Device) RSI AVL Web Browser Based ESRI ArcGIS Server Mapping & Reporting <b>Includes wireless service and unlimited Web software access.</b> Service fees are calculated per vehicle per month. Assumes 30 second update rate, plus stops, starts, turns, and events. Other update rates available as an option. Monthly tracking fee per device excluding wireless data: \$20	\$	28 each	\$ 504
			Annual SW Service	\$ 6,048
			Year One Total (w hardware)	\$ 12,528
			Year 2-5 Annual	\$ 6,408

**ALTERNATIVE MOBILE UNITS**

TBD quantity		per unit		total
1	RSI MOBILE UNIT (LMU 5000) (Verizon EVDO Rev A -3G) <i>Mobile Units Configured for public data network (Verizon)</i> <i>Includes: antenna, cabling, mount.</i> <i>Requires separate wireless data plan.</i>	\$	645 each	\$ 645
1	RSI MOBILE UNIT (TTU) (Verizon CDMA) <i>Mobile Units Configured for public data network (Verizon)</i> <i>Includes: antenna, cabling, mount.</i>	\$	295 each	\$ 295
1	RSI MOBILE UNIT (LMU 3000) (Verizon CDMA) <i>Mobile Units Configured for public data network (Verizon)</i> <i>Includes: antenna, cabling, mount.</i>	\$	325 each	\$ 325
1	RSI MOBILE UNIT (Vanguard 3G) (Verizon EVDO Rev A- 3G) <i>Mobile Units Configured for public data network (Verizon)</i> <i>Includes: antenna, cabling, mount.</i> <i>Requires separate wireless data plan.</i>	\$	995 each	\$ 995

**ADDITIONAL SYSTEM OPTIONS**

TBD quantity		per unit		total
5	DAYS ONSITE TRAINING (All Depts)	\$	1,250 each	\$ 6,250
1	LOT SHIPPING (All Depts)	\$	1,250 each	\$ 1,250
1	LOT TRAVEL EXPENSES (All Depts)	\$	1,500 each	\$ 1,500
18	EXTENDED ANNUAL WARRANTY ON HARDWARE (per unit) <i>Past year one</i>	\$	20 each	\$ 360
1	ENGINE DIAGNOSTIC DATA INTERFACE ADD-ON (OBDII Light Duty)	\$	125 each	\$ 125
1	ENGINE DIAGNOSTIC DATA INTERFACE ADD-ON (JBus Heavy Duty)	\$	230 each	\$ 230
1	Sensor Integration to existing on-vehicle sensor (broom, plow, PTO, etc)	\$	50 each	\$ 50
1	RSI CUSTOMIZED GARMIN MDTs w/ Navigation <i>Customized messaging and navigation device</i> <i>Includes Mount, Cabling, &amp; Customization</i>	\$	695 each	\$ 695
1	WiFi Add-On to LMU 4220 Unit	\$	275 each	\$ 275
1	Real Time Data Feed to Third Party System	TBD	each	\$ -
1	Emergency Buttons Hard-wired On-Vehicle Button	\$	145 each	\$ 145
1	Emergency Buttons Wireless Handheld Medallion	\$	195 each	\$ 195
1	RF ID Reader (Driver ID)	\$	295 each	\$ 295
1	Magnetic Card Stripe Reader (Driver ID)	\$	150 each	\$ 150
1	iButton/Key Fob Reader (Driver ID)	\$	150 each	\$ 150

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**Radio  
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**Cook County**  
Automatic Vehicle Location  
RFP #12-28-318- PRICING

04/08/13

**FOREST PRESERVE DISTRICT**

<b>MOBILE HARDWARE</b>					
TBD quantity		per unit			total
396	RSI MOBILE UNIT (LMU 4220) (Verizon CDMA) <i>Mobile Units Configured for public data network (Verizon)</i> <i>Includes: antenna, cabling, mount.</i>	\$	235	each	\$ 93,060

<b>396</b>	<b>MOBILE UNIT INSTALLATION PER VEHICLE</b>	<b>\$</b>	<b>125</b>	<b>each</b>	<b>\$ 49,500</b>
	Un-Install	\$	95	each	
	On-Site Service of Unit	\$	125	each	

<b>MONTHLY WEB TRACKING SERVICE FEES</b>					
TBD quantity		per unit			total
396	RSI AVL WEB TRACKING SERVICE FEES (per Month per Device) RSI AVL Web Browser Based ESRI ArcGIS Server Mapping & Reporting <b>Includes wireless service and unlimited Web software access.</b> Service fees are calculated per vehicle per month.	\$	28	each	\$ 11,088
	Assumes 30 second update rate, plus stops, starts, turns, and events.		Annual SW Service	\$	133,056
	Other update rates available as an option.		Year One Total (w hardware)	\$	275,616
	Monthly tracking fee per device excluding wireless data: \$20		Year 2-5 Annual	\$	140,976

**ALTERNATIVE MOBILE UNITS**

TBD quantity		per unit		total
1	RSI MOBILE UNIT (LMU 5000) (Verizon EVDO Rev A -3G) <i>Mobile Units Configured for public data network (Verizon)</i> <i>Includes: antenna, cabling, mount.</i> <i>Requires separate wireless data plan.</i>	\$	645 each	\$ 645
1	RSI MOBILE UNIT (TTU) (Verizon CDMA) <i>Mobile Units Configured for public data network (Verizon)</i> <i>Includes: antenna, cabling, mount.</i>	\$	295 each	\$ 295
1	RSI MOBILE UNIT (LMU 3000) (Verizon CDMA) <i>Mobile Units Configured for public data network (Verizon)</i> <i>Includes: antenna, cabling, mount.</i>	\$	325 each	\$ 325
1	RSI MOBILE UNIT (Vanguard 3G) (Verizon EVDO Rev A- 3G) <i>Mobile Units Configured for public data network (Verizon)</i> <i>Includes: antenna, cabling, mount.</i> <i>Requires separate wireless data plan.</i>	\$	995 each	\$ 995

**ADDITIONAL SYSTEM OPTIONS**

TBD quantity		per unit		total
5	DAYS ONSITE TRAINING (All Depts)	\$	1,250 each	\$ 6,250
1	LOT SHIPPING (All Depts)	\$	1,250 each	\$ 1,250
1	LOT TRAVEL EXPENSES (All Depts)	\$	1,500 each	\$ 1,500
396	EXTENDED ANNUAL WARRANTY ON HARDWARE (per unit) <i>Past year one.</i>	\$	20 each	\$ 7,920
1	ENGINE DIAGNOSTIC DATA INTERFACE ADD-ON (OBDII Light Duty)	\$	125 each	\$ 125
1	ENGINE DIAGNOSTIC DATA INTERFACE ADD-ON (JBus Heavy Duty)	\$	230 each	\$ 230
1	Sensor Integration to existing on-vehicle sensor (broom, plow, PTO, etc)	\$	50 each	\$ 50
1	RSI CUSTOMIZED GARMIN MDTs w/ Navigation <i>Customized messaging and navigation device</i> <i>Includes Mount, Cabling, &amp; Customization</i>	\$	695 each	\$ 695
1	WiFi Add-On to LMU 4220 Unit	\$	275 each	\$ 275
1	Real Time Data Feed to Third Party System	TBD	each	\$ -
1	Emergency Buttons Hard-wired On-Vehicle Button	\$	145 each	\$ 145
1	Emergency Buttons Wireless Handheld Medallion	\$	195 each	\$ 195
1	RF ID Reader (Driver ID)	\$	295 each	\$ 295
1	Magnetic Card Stripe Reader (Driver ID)	\$	150 each	\$ 150
1	iButton/Key Fob Reader (Driver ID)	\$	150 each	\$ 150

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**Radio  
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Integrators, Inc.**



**Cook County  
Automatic Vehicle Location  
RFP #12-28-318- PRICING**

01/09/14

MOBILE HARDWARE				
TBD quantity		per unit		total
1	RSI MOBILE UNIT (LMU 4220) (Verizon CDMA) <i>Mobile Units Configured for public data network (Verizon) Includes: antenna, cabling, mount.</i>	\$	235 each	\$ 235
<b>QUANTITY DISCOUNTS:</b>				
	1500 units	\$	225 each	
	(2200 City of Chicago units) 3500 units	\$	185 each	
Note: If Chicago volume is added after Cook Co. initial purchase, RSI will credit Cook Co. \$40 per unit				
1	ENGINE DIAGNOSTIC DATA INTERFACE ADD-ON (OBDII Light Duty)	\$	125 each	\$ 125
1	ENGINE DIAGNOSTIC DATA INTERFACE ADD-ON (JBus Heavy Duty)	\$	230 each	\$ 230
1	<b>MOBILE UNIT INSTALLATION PER VEHICLE</b>	\$	125 each	\$ 125
	Un-Install	\$	95 each	
	On-Site Service of Unit	\$	125 each	

MONTHLY WEB TRACKING SERVICE FEES				
TBD quantity		per unit		total
1	RSI AVL WEB TRACKING SERVICE FEES (per Month per Device) RSI AVL Web Browser Based ESRI ArcGIS Server Mapping & Reporting <b>Includes wireless service and unlimited Web software access.</b> Service fees are calculated per vehicle per month. Assumes 30 second update rate, plus stops, starts, turns, and events. Other update rates available as an option.	\$	28 each	\$ 28
	15 seconds	\$	30 each	
	10 seconds	\$	33 each	
	Spreader Controller Data (additional)	\$	4 each	

ALTERNATIVE MOBILE UNITS				
TBD quantity		per unit		total
1	RSI MOBILE UNIT (LMU 6000) (Verizon EVDO Rev A -3G) <i>Mobile Units Configured for public data network (Verizon)</i> <i>Includes: antenna, cabling, mount.</i> <i>Requires separate wireless data plan.</i>	\$	645 each	\$ 645
1	RSI MOBILE UNIT (TTU) (Verizon CDMA) <i>Mobile Units Configured for public data network (Verizon)</i> <i>Includes: antenna, cabling, mount.</i>	\$	295 each	\$ 295
1	RSI MOBILE UNIT (LMU 3000) (Verizon CDMA) <i>Mobile Units Configured for public data network (Verizon)</i> <i>Includes: antenna, cabling, mount.</i>	\$	325 each	\$ 325

ADDITIONAL SYSTEM OPTIONS				
TBD quantity		per unit		total
5	DAYS ONSITE TRAINING	\$	1,250 each	\$ 6,250
1	REMOTE ONLINE TRAINING		No Charge	\$ -
1	RSI Interface to Spreader Controllers <i>RSI portion of spreader controller interface only.</i> <i>Does not include any add'l costs that <b>may</b> be required from third party</i>	\$	250 each	\$ 250
1	Sensor Integration to existing on-vehicle sensor (broom, plow, PTO, etc)	\$	50 each	\$ 50
1	RSI CUSTOMIZED GARMIN MDTs w/ Navigation <i>Customized messaging and navigation device</i> <i>Includes Mount, Cabling, &amp; Customization</i>	\$	695 each	\$ 695
1	CUSTOMIZED REPORT (estimated cost)	\$	5,000 each	\$ 5,000
1500	DATA INTERFACE TO THIRD PARTY <i>Does not include 3rd party fees</i> <i>(Per unit per month)</i> <i>Approximately \$36,000 for 1500 vehicles.</i> <i>Cost may be higher for smaller quantities.</i>	\$	2 each	\$ 3,000
1	INTERFACE TO ESRI GIS <i>Map Service</i>		No Charge	\$ -
1	PRIVATE VPN TUNNEL FROM VERIZON <i>(Per unit per month)</i>	\$	2 each	\$ 2
1	DATA TRANSFER VIA FTP		No Charge	\$ -
1	DATA STORAGE/ARCHIVING (While customer)		No Charge	\$ -
1	WiFi Add-On to LMU 4220 Unit	\$	275 each	\$ 275
1	Emergency Buttons <i>Hard-wired On-Vehicle Button</i>	\$	145 each	\$ 145
1	Emergency Buttons <i>Wireless Handheld Medallion</i>	\$	195 each	\$ 195
1	RF ID Reader (Driver ID)	\$	295 each	\$ 295
1	Magnetic Card Stripe Reader (Driver ID)	\$	150 each	\$ 150
1	iButton/Key Fob Reader (Driver ID)	\$	150 each	\$ 150
1	LOT SHIPPING		TBD each	\$ -
1	LOT TRAVEL EXPENSES	\$	1,500 each	\$ 1,500
1	EXTENDED ANNUAL WARRANTY ON HARDWARE (per unit) <i>Past year one.</i>	\$	20 each	\$ 20

**CONFIDENTIAL**

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EXHIBIT 3

Cook County Travel Policy



**COOK COUNTY  
TRANSPORTATION  
EXPENSE REIMBURSEMENT  
AND TRAVEL REGULATIONS  
POLICY**

**Adopted: FY2009**

# COOK COUNTY TRANSPORTATION EXPENSE REIMBURSEMENT

## SECTION I. AUTOMOBILE REIMBURSEMENT PLAN

- A. Any employee who is required and authorized to use their personally owned automobile in the conduct of official County Business shall be allowed and reimbursed. The number of County business miles driven per ½ month will be compensated at the standard IRS deduction for business related transportation currently in effect and authorized by the Bureau of Administration. IRS mileage rates adjusted midyear will not be made retroactive.
- B. In addition, parking and tolls shall be allowed for reimbursement if items are supported by receipts. Proof of IPASS charges shall be submitted along with the Transportation Expense Voucher.

## SECTION II. GUIDELINES

### A. Commuting Expenses

Commuting expenses between an employee's home and regular place of assignment will not be reimbursed, even if an employee's regular place of assignment is at different locations on different days within the County.

***Example:** An employee working for the Assessor's Office is regularly assigned to the Assessor's Office in Markham on Mondays and to the Assessor's Office in Maywood on Tuesdays through Fridays. Travel expenses to and from the employee's home and Assessor's Office on any day will not be reimbursed when assignments are permanent.*

### B. Temporary and Minor Assignments (residence to temporary duty point)

Employees who are required to perform County business in the form of temporary and minor assignments beyond the general area of their regular place of assignment in the County may be reimbursed for their transportation expenses between home and their first or last stop, for such travel attributed to County business.

Mileage to first stop or from last stop between home and temporary place of assignment may be allowed and reimbursed.

Authorization for reimbursement for transportation between home and first or last stop shall only be allowed when, in the judgment of the Department head, reporting to the regular place of assignment is not reasonable because of the elements of time, place, business purpose and employee effectiveness. The assignment must be temporary and not indefinite.

**C. Temporary and Minor Assignments (mileage between temporary duty points)**

Employees who receive one or more temporary assignments in a day may be reimbursed for transportation for getting from one place to the other. Mileage from the employee's regular place of assignment, or first duty point, to all temporary duty points and back to regular place of assignment, or last duty point, is entitled to reimbursement.

**D. General Guidelines**

1. Mileage must be computed on the basis of the most direct route. Any mileage incurred solely for personal reasons is not reimbursable.
2. Employees must bear the cost of their normal commuting expenses between residence and official place of assignment.
3. Close supervision shall be maintained over the use of privately owned vehicles by the Department Heads. Authorization for use of privately owned vehicles shall only be given when deemed a service and benefit to Cook County Government. Reimbursements for transportation shall only be as compensation for services performed for the County.

**SECTION III. TRANSPORTATION EXPENSE VOUCHER**

**A. Preparation**

1. All claims for compensation of transportation expenses including the use of privately owned automobile and incidental parking fees and tolls, and taxicab and bus fares shall be submitted and itemized in the Transportation Expense Voucher. (For each stop of business use, enter date, started from location, finished at location, miles and expense between each stop. Total the dollar amount and enter in the space for "Total.")
2. When travel between home and first or last temporary duty point is authorized, the employee's residence shall be entered on the Transportation Expense Voucher, "Started from Location" or "Finished at Location."
3. The Transportation Expense Voucher shall be supported by receipts for all items, individually.
4. The Transportation Expense Voucher shall be prepared and signed by the individual who has incurred the expense and signed by their Supervisor. The original Voucher shall be submitted to the Comptroller's Office and a copy should be retained by the employee and by the department. Falsification of a Transportation Expense Voucher is considered a major cause infraction subject to disciplinary action up to and including discharge.

5. The individual submitting the Transportation Expense Voucher is personally responsible for its accuracy and priority. Trip details shall be entered immediately following automobile use to eliminate possibility of errors. The form must be completed in its entirety, e.g., insurance coverage.

**B. Approval and Submission**

1. The Transportation Expense Voucher shall be approved by the Department Head or a designated representative, who shall sign the original copy of the Transportation Expense Voucher. The original Voucher shall be sent to the Comptroller's Office by the 10<sup>th</sup> day of the following month in which the travel expense was incurred. Transportation Expense Vouchers submitted 60 days after the end of the month in which travel expense was incurred will not be reimbursed. A copy of the Transportation Expense Voucher shall be retained by the department and the employee.
2. Any Transportation Expense Voucher not prepared in accordance with these regulations, including the proper signatures, will be returned to the originator for corrections.

**C. Authorized Attendance at Seminars, Meetings, Conventions, etc., on County Business**

These expenses shall be detailed in accordance with the procedure relating to "Cook County Travel Regulations."

**SECTION IV. COUNTY-OWNED AUTOMOBILE**

Section 162(a)(2) of the Internal Revenue Code requires that any employee who is assigned a County-owned vehicle for use in performance of the employee's duties and who uses the vehicle for use in performance of the employee's duties and who uses the vehicle to commute from home to work and/or from work to home must include in their compensation the value to the employee (as provided for by the IRS) for each day such vehicle is used for commuting purposes, and Cook County must include this compensation on employee W-2 form.

The use of County-owned vehicles for personal use is prohibited.

# **COOK COUNTY TRAVEL REGULATIONS**

## **SECTION I TRAVEL EXPENSES**

- A.** Travel expenses are ordinary and necessary expenses for transportation, hotel accommodations, meals and incidental expenses for travel that is longer than an ordinary day's work, and the employee needs to get sleep or rest during non-working time while away.

Reimbursements shall be allowed if the following requirements are met:

1. Travel is for periods more than or equal to be employee's scheduled workdays hours, plus 2 hours (usually 10 hours).
2. The employee must get sleep or rest while away in order to complete County business. (This does not mean napping in the car.)
3. Lodging and air travel shall be arranged through a County travel vendor, as specified by the Purchasing Agent.

## **SECTION II RESPONSIBILITY OF DEPARTMENT HEAD**

- A.** The Department Head is responsible for the execution of all travel regulations as well as such other policies and guidelines regarding travel as published by the Bureau of Administration.
- B.** All travel subject to these regulations shall be authorized in advance by the Department Head in accordance with current County directives.
- C.** Each Department shall develop a system for the prior authorization and control of travel to prevent expenses exceeding appropriations and to hold travel to the minimum required for efficient and economical conduct of County business.
- D.** The rates for reimbursements set forth in these regulations represent the maximums permitted under IRS guidelines.

## **SECTION III ALLOWABLE TRANSPORTATION EXPENSE**

- A.** Modes of transportation authorized for official travel in the course of County business will include automobiles, railroads, airlines, buses, taxicabs, and other usual means of conveyance. Transportation may include fares and expenses incidental to transportation such as baggage transfer, official telephone messages in connection with items classed as transportation, and reasonable tips.
- B.** All taxicab fares shall be accompanied by a receipt indicating the amount paid.

- C. Transportation between place of lodging and place of business at a temporary work location shall be allowed as a transportation expense.

**SECTION IV           MODE OF TRAVEL**

- A. All travel shall be by the most direct route.
- B. In cases where an individual for their own convenience travels by an indirect route or interrupts travel by direct route, that individual shall bear the extra expense. Reimbursement for expenses shall be based only on such charges as would have been incurred by the most direct and economical route.
- C. All travel shall be by the most economical mode of transportation available, considering travel time, costs, and work requirements.

**SECTION V           ACCOMMODATIONS ON AIRPLANES, TRAINS, AND BUSES**

- A. First class travel is prohibited
- B. Travel on airplanes shall be coach class.
- C. Any charges incurred as a result of changes to an original airline reservation made prior to or during travel are subject to Department Head approval.

**SECTION VI           USE OF PRIVATELY OWNED OR RENTED CONVEYANCE**

- A. When an individual rendering service to the County uses privately owned motor vehicles in the conduct of official business and such use is authorized or approved as advantageous to the County, payment shall be made on a mileage basis at rates not to exceed those published by the Bureau of Administration.
- B. Reimbursement for the cost of automobile parking fees and tolls shall be allowed. The fee for parking an automobile at a common carrier terminal, or other parking area, while the traveler is on official business, shall be allowed only to the extent that the fee does not exceed the cost of public transportation.
- C. When a privately owned automobile is used for travel, the total transportation cost (including mileage allowance, parking fees, tolls and per diem expenses) shall not exceed the cost of public transportation, if reasonable public transportation is available.
- D. The use of rented automobiles will be kept to an absolute minimum and rented only in an emergency upon prior approval of the responsible Department Head. Every effort shall be made to obtain other suitable transportation rather than to use rented vehicles. Where emergencies require the use of a rented vehicle, the most economical vehicle available and suitable for the conduct of County business shall be obtained.

**SECTION VII LIVING EXPENSES**

**A. Meals and Incidental Expense (M&IE)**

Employees assigned to out of town travel shall receive a per diem set by the current U.S. General Services Administration in their Federal Travel Regulations (FTR) Meal and Incidental Expense (M&IE) rate. Travel rates differ by travel location and are periodically revised by the Federal Government. These rates can be found at the GSA "Domestic Per Diem Rates" website page at [www.gsa.gov/perdiem](http://www.gsa.gov/perdiem).

The per diem rate is intended to include all meals and incidental expenses during the period of travel. There will be no reimbursement for meals and incidental expenses beyond this rate.

In addition, the traveler may receive reimbursement for special expenses as provided in Paragraph "C-3" below.

**B. Travel Without Lodging**

When lodging is not required, the per diem M&IE allowance is not permitted. Travel shall be on "actual expenses incurred."

**C. Reimbursable Expenses**

1. Lodging - Reasonable costs of hotel accommodations incurred will be allowed. Lodging shall be reimbursed by receipt up to the limits of the current Federal Travel Regulations as shown on the GSA "Domestic Per Diem Rates" website page at [www.gsa.gov/perdiem](http://www.gsa.gov/perdiem).

Questions of reasonable hotel accommodations should be referred to the Bureau of Administration. Receipts are to be submitted with the Invoice Form to support accommodation expenses claimed.

2. Transportation - Transportation to and from duty point; between places of lodging, business and meals shall be allowed.
3. Special Expenses - The reasonable cost of miscellaneous expenses incurred shall be allowed to a traveler. The following are examples of miscellaneous expenses that may be deemed reimbursable or non-reimbursable:

<u>Reimbursable</u>	<u>Non-Reimbursable</u>
Stenographic and Typing Services	Entertainment
Storage of Baggage	Alcoholic Beverages
Hire of Room for Official Business	Traffic Tickets
Telephone Calls on Official Business	

All special expenses shall be itemized on the Conference and Travel Reimbursement Voucher with receipts attached.

## **SECTION VIII      CONFERENCES**

When the cost of meals for approved seminars or official meetings is an integral part of the Registration Fee, the "per diem" traveler shall deduct such amounts from the "cost of meals and incidental expenses" allowance, and the traveler on "actual expenses incurred" shall not claim meals which are included in the conference fee.

## **SECTION IX      CONFERENCE AND TRAVEL REIMBURSEMENT VOUCHER**

### **A.                    Memorandum of Expenditures**

A memorandum of all travel expenditures properly chargeable to the County shall be kept by individuals subject to these regulations. The information thus accumulated shall be available for proper Invoice Form preparation.

### **B.                    Conference and Travel Reimbursement Voucher Preparation**

1.      All claims for reimbursement of travel expenses shall be submitted on the Conference and Travel Reimbursement Voucher and shall be itemized in accordance with these regulations.
2.      The Conference and Travel Reimbursement Voucher shall show the purpose of travel, the dates of travel, the points of departure and destination, mode of transportation, and the cost of the transportation secured or mileage allowance if automobile is used.
3.      The Conference and Travel Reimbursement Voucher shall be supported by receipts in all instances for railroad and airplane transportation, for lodging, meals and incidental expense (M&IE) items, and all other items. Also, a copy of the travel authorization is to be included for out-of-state travel.
4.      The Conference and Travel Reimbursement Voucher shall be prepared and signed by the individual who has incurred the expenses.
5.      The individual submitting the Conference and Travel Reimbursement Voucher is personally responsible for accuracy and propriety. A misrepresentation shall be cause for disciplinary or legal action.

### **C.                    Approval and Submission of Invoice Form**

1.      The Conference and Travel Reimbursement Voucher shall be approved by the Department Head or a designated representative, who shall sign the original Voucher and submit to the Comptroller's Office. A copy of the Voucher shall be retained by the Department as well as the person submitting the Voucher.
2.      Any Conference and Travel Reimbursement Voucher not prepared in accordance with these regulations or not properly supported by receipts where required will be returned to the originator for correction.

**D. Frequency of Submission**

The original Conference and Travel Reimbursement Voucher shall be sent to the Comptroller's Office by the 10<sup>th</sup> day of the following month in which the travel expense was incurred. Conference and Travel Reimbursement Vouchers submitted 60 days after the end of the month in which travel expense was incurred will not be reimbursed. A copy of the Conference and Travel Reimbursement Voucher shall be retained by the department and the employee.

EXHIBIT 4

Evidence of Insurance



# CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)  
2/6/2014

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).

<b>PRODUCER</b> Woodruff-Sawyer & Co. 50 California Street, Floor 12 San Francisco CA 94111	<b>CONTACT NAME:</b> Brian Holl
	<b>PHONE (A/C, No, Ext):</b> 415-391-2141
	<b>FAX (A/C, No):</b> 415-989-9923
	<b>E-MAIL ADDRESS:</b> astanchina@wsandco.com
	<b>INSURER(S) AFFORDING COVERAGE</b>
	<b>INSURER A:</b> Atlantic Specialty Insurance Compan
	<b>INSURER B:</b> Travelers Prop Casualty Co of Ameri
	<b>INSURER C:</b>
	<b>INSURER D:</b>
	<b>INSURER E:</b>
	<b>INSURER F:</b>

**COVERAGES**                      **CERTIFICATE NUMBER:** 637696384                      **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	ADDL INSR	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
A	<b>GENERAL LIABILITY</b> <input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC	Y		7110091340007	12/1/2013	12/1/2014	EACH OCCURRENCE \$1,000,000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$1,000,000 MED EXP (Any one person) \$10,000 PERSONAL & ADV INJURY \$1,000,000 GENERAL AGGREGATE \$2,000,000 PRODUCTS - COMP/OP AGG \$2,000,000 \$
A	<b>AUTOMOBILE LIABILITY</b> <input type="checkbox"/> ANY AUTO <input type="checkbox"/> ALL OWNED AUTOS <input checked="" type="checkbox"/> HIRED AUTOS <input type="checkbox"/> SCHEDULED AUTOS <input checked="" type="checkbox"/> NON-OWNED AUTOS			7110091340007	12/1/2013	12/1/2014	COMBINED SINGLE LIMIT (Ea accident) \$1,000,000 BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$ \$
	<b>UMBRELLA LIAB</b> <input type="checkbox"/> EXCESS LIAB <input type="checkbox"/> DED <input type="checkbox"/> RETENTION \$						<input type="checkbox"/> OCCUR <input type="checkbox"/> CLAIMS-MADE EACH OCCURRENCE \$ AGGREGATE \$ \$
B	<b>WORKERS COMPENSATION AND EMPLOYERS' LIABILITY</b> ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below		Y/N	HJUB8A51966013	11/1/2013	11/1/2014	<input checked="" type="checkbox"/> WC STATU-TORY LIMITS <input type="checkbox"/> OTH-ER E.L. EACH ACCIDENT \$1,000,000 E.L. DISEASE - EA EMPLOYEE \$1,000,000 E.L. DISEASE - POLICY LIMIT \$1,000,000

**DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (Attach ACORD 101, Additional Remarks Schedule, if more space is required)**  
Cook County is included as an additional insured with regards to General Liability per form VCG 207 07 09. Insurance is primary and non-contributory.

<b>CERTIFICATE HOLDER</b>  Cook County 118 N. Clark Street Room 1018 Chicago IL 60602	<b>CANCELLATION</b>  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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THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

## @VANTAGE FOR GENERAL LIABILITY

This endorsement modifies insurance provided under the following:

### COMMERCIAL GENERAL LIABILITY COVERAGE FORM

The following schedule lists the coverage extensions provided by this endorsement. Refer to the individual provisions to determine the extent of your coverage.

SCHEDULE OF COVERAGE EXTENSIONS	
1. Additional Insured – Broad Form Vendors	10. Coverage Territory – Worldwide
2. Additional Insured – by Contract, Agreement or Permit relating to: <ul style="list-style-type: none"><li>o Work performed by you</li><li>o Premises you own, rent, lease or occupy</li><li>o Equipment you lease</li></ul>	11. Duties in Event of Occurrence, Claim or Suit
3. Aggregate Limit Per Location	12. Expected or Intended Injury (PD)
4. Alienated Premises	13. Incidental Medical Malpractice
5. Blanket Waiver of Subrogation	14. Medical Payments
6. Bodily Injury Redefined- Mental Anguish	15. Mobile Equipment Redefined
7. Broadened Named Insured	16. Newly Formed or Acquired Organizations
8. Broadened Property Damage <ul style="list-style-type: none"><li>o Borrowed Equipment</li><li>o Customers' Goods</li><li>o Use of Elevators</li></ul>	17. Non-Owned Aircraft
9. Broadened Property Damage Rented Premises	18. Non-Owned Watercraft
	19. Personal and Advertising Injury – Non Employment Related Discrimination
	20. Personal Injury – Limited Contractual Liability Coverage
	21. Product Recall Expense
	22. Supplementary Payments Increased Limits

#### 1. ADDITIONAL INSURED – BROAD FORM VENDORS

Section II – Who Is An Insured is amended to include as an additional insured any person(s) or organization(s) (referred to below as vendor) with whom you agreed in a written contract or agreement to provide insurance, but only with respect to "bodily injury" or "property damage" arising out of "your products" which are distributed or sold in the regular course of the vendor's business, subject to the following additional exclusions:

a. This provision 1. does not apply to:

- (1) "Bodily injury" or "property damage" for which the vendor is obligated to pay damages by reason of the assumption of liability in a contract or agreement. This exclusion does not apply to liability for damages that the vendor would have in the absence of the contract or agreement;
- (2) Any express warranty not authorized by you;
- (3) Any physical or chemical change in the product made intentionally by the vendor;
- (4) Repackaging, except when unpacked solely for the purpose of inspection, demonstration, testing or the substitution of parts under instructions from the manufacturer, and then repackaged in the original container;
- (5) Any failure to make such inspections, adjustments, tests or servicing as the vendor has agreed to make or normally undertakes to make in the usual course of business, in connection with the distribution or sale of the products;
- (6) Demonstration, installation, servicing or repair operations, except such operations performed at the vendor's premises in connection with the sale of the product;
- (7) Products which, after distribution or sale by you, have been labeled or relabeled or used as a container, part or ingredient of any other thing or substance by or for the vendor; or

(8) "Bodily injury" or "property damage" arising out of the sole negligence of the vendor for its own acts or omissions or those of its employees or anyone else acting on its behalf. However, this exclusion does not apply to:

(a) The exceptions contained in Subparagraphs 4. or 6.; or

(b) Such inspections, adjustments, tests or servicing as the vendor has agreed to make or normally undertakes to make in the usual course of business, in connection with the distribution or sale of the products.

(9) Any vendor, person or organization if the "products-completed operations hazard" is excluded either by the provisions of the Coverage Form or by endorsement.

b. This insurance does not apply to any insured person or organization, from whom you have acquired such products, or any ingredient, part or container, entering into, accompanying or containing such products.

## 2. ADDITIONAL INSURED – CONTRACT, AGREEMENT OR PERMIT

a. Section II – Who Is An Insured is amended to include as an additional insured any person(s) or organization(s) with whom you agreed in a written contract, written agreement or permit to provide insurance such as is afforded under this Coverage Part, but only with respect to liability for "bodily injury", "property damage" or "personal and advertising injury" caused, in whole or in part, by your acts or omissions or the acts or omissions of those acting on your behalf:

1. In the performance of "your work" for the additional insured(s) at the location designated in the contract, agreement or permit; or

2. In the maintenance, operation or use of equipment leased to you by such person(s) or organization(s), or

3. In connection with premises you own, rent, lease or occupy.

This insurance applies on a primary or primary and non-contributory basis if that is required in writing by the contract, agreement or permit.

b. The insurance provided to the additional insured herein is limited. This insurance does not apply:

1. Unless

(a) the written contract, agreement or permit is currently in effect or becomes effective during the term of this policy; and

(b) the contract or agreement was executed or permit issued prior to the "bodily injury", "property damage", or "personal and advertising injury";

2. To any person or organization included as an insured under the Additional Insured – Broad Form Vendors provision of this endorsement;

3. To any person or organization included as an insured by an endorsement issued by us and made part of this Coverage Part;

4. To any person or organization if the "bodily injury", "property damage", or "personal and advertising injury" arises out of the rendering of or failure to render any professional architectural, engineering or surveying services by or for you including:

(a) The preparing, approving, or failing to prepare or approve, maps, shop drawings, opinions, reports, surveys, field orders, change orders or drawings and specifications; or

(b) Supervisory, inspection, architectural or engineering activities.

5. To any:

(a) Lessor of equipment after the equipment lease terminates or expires; or

(b) Owners or other interests from whom land has been leased; or

(c) Managers or lessors of premises if:

(1) The "occurrence" takes place after you cease to be a tenant in that premises; or

(2) The "bodily injury", "property damage", "personal and advertising injury" arises out of structural alterations, new construction or demolition operations performed by or on behalf of the manager or lessor.

6. To "bodily injury, or "property damage" occurring after:

(a) All work on the project (other than service, maintenance or repairs) to be performed by or on behalf of the additional insured at the site of the covered operations has been completed; or

(b) That portion of "your work" out of which the injury or damage arises has been put to its intended use by any person or organization other than another contractor or subcontractor engaged in performing operations for a principal as part of the same project.

c. Limits of Insurance applicable to the additional insured are those specified in the contract, agreement or permit or in the Declarations of this policy, whichever is less, and fix the most we will pay regardless of the number of:

1. Insureds;
2. Claims made or "suits" brought; or
3. Persons or organizations making claims or bringing "suits".

These Limits of Insurance are inclusive of and not in addition to the Limits of Insurance shown in the Declarations.

### 3. AGGREGATE LIMIT PER LOCATION

a. Under Section III – Limits of Insurance, the General Aggregate Limit applies separately to each of your "locations" owned by or rented or leased to you.

b. Under Section V – Definitions, the following definition is added:

"Location" means premises involving the same or connecting lots, or premises whose connection is interrupted only by a street, roadway, waterway or right-of-way of a railroad.

### 4. ALIENATED PREMISES

Paragraph j. (2) of 2. Exclusions of COVERAGE A – BODILY INJURY AND PROPERTY DAMAGE LIABILITY is deleted and replaced with the following:

(2) Premises you sell, give away or abandon, if the "property damage" arises out of any part of those premises and occurs from hazards that were known to you or should have been known to you, at the time the property was transferred or abandoned.

### 5. BLANKET WAIVER OF SUBROGATION

Section IV – Transfer of Rights of Recovery Against Others to Us Condition is amended to add the following:

We will waive any right of recovery we may have against any person or organization because of payments we make for injury or damage arising out of your ongoing operations done under a written contract or agreement with that person or organization and included in "your work" or the "products-completed operations hazard". This waiver applies only to persons or organizations with whom you have a written contract, executed prior to the "bodily injury" or "property damage", that requires you to waive your rights of recovery.

### 6. BODILY INJURY REDEFINED – MENTAL ANGUISH

Under Section V – Definitions, the definition of "bodily injury" is replaced by the following:

"Bodily injury" means bodily injury, sickness, or disease sustained by a person, including mental anguish or death resulting from any of these at any time.

### 7. BROADENED NAMED INSURED

Section II – Who Is An Insured is amended to include as an insured the following:

Any organization which is a legally incorporated entity in which you own a financial interest of more than 50 percent of the voting stock on the effective date of this endorsement will be a Named Insured until the 180<sup>th</sup> day or the end of the policy period, whichever comes first, provided there is no other similar insurance available to that organization.

The insurance afforded herein does not apply to any entity which is also an insured under another policy or would be an insured under such policy but for its termination or the exhaustion of its limits of insurance.

### 8. BROADENED PROPERTY DAMAGE – BORROWED EQUIPMENT, CUSTOMERS' GOODS AND USE OF ELEVATORS

The insurance for "property damage" liability is subject to the following:

a. The Damage To Property exclusion under Section I Coverage A is amended as follows:

1. The exclusion for personal property in the care, custody or control of the insured does not apply to "property damage" to equipment you borrow while at a job site and provided it is not being used by anyone to perform operations at the time of loss.

2. The exclusions for
  - (a) Property loaned to you;
  - (b) Personal property in the care, custody or control of the insured; and
  - (c) That particular part of any property that must be restored, repaired or replaced because "your work" was incorrectly performed on it
 

do not apply to "property damage" to "customers' goods" while on your premises nor do they apply to "property damage" arising from the use of elevators at premises you own, rent, lease or occupy.

Subject to the Each Occurrence Limit, the most we will pay for "property damage" to "Customers' Goods" is \$35,000 per "occurrence".

- b. Under Section V – Definitions, the following definition is added:
 

"Customers' Goods" means goods of your customer on your premises for the purpose of being:

  1. Repaired; or
  2. Used in your manufacturing process.
- c. The insurance afforded by this provision is excess over any other valid and collectible property insurance (including any deductible) available to the insured whether such insurance is primary, excess, contingent or on any other basis. Any payments by us will follow the Other Insurance – Excess provisions in the COMMERCIAL GENERAL LIABILITY CONDITIONS.

9. BROADENED PROPERTY DAMAGE – RENTED PREMISES

- a. In the Damage To Property exclusion under Section I Coverage A, the exclusion for "property damage" to:
 

Property you own, rent or occupy;

does not apply to real property you rent or temporarily occupy with permission of the owner.
- b. In Section III – Limits Of Insurance, the Damage To Premises Rented To You Limit is amended as follows:
 

Subject to the Each Occurrence Limit, \$500,000 is the most we will pay under Coverage A for damages because of "property damage" to any one premises while rented to you or occupied by you with permission of the owner. If any amount other than \$500,000 is shown in the Declarations as the Damage To Premises Rented To You Limit, the amount shown in the Declarations will replace \$500,000 as the Limit of Insurance provided for this coverage.
- c. The insurance afforded by this Provision 9. is excess over any other valid and collectible property insurance (including any deductible) available to the insured whether such insurance is primary, excess, contingent or on any other basis. Any payments by us will follow the Other Insurance – Excess Insurance provisions in the COMMERCIAL GENERAL LIABILITY CONDITIONS.

10. COVERAGE TERRITORY – WORLDWIDE

The definition of "coverage territory" is replaced by the following:

"Coverage territory" means anywhere provided the insured's responsibility to pay damages must be determined in a settlement we agree to or in a "suit" on the merits brought within the United States of America (including its territories and possessions), Puerto Rico or Canada.

11. DUTIES IN THE EVENT OF OCCURRENCE, OFFENSE, CLAIM OR SUIT

Section IV – Duties In The Event Of Occurrence, Claim or Suit is amended by adding the following paragraphs:

- a. The requirements that you must
  1. notify us of an "occurrence" offense, claim or "suit" and
  2. send us documents concerning a claim or "suit"

apply only when such "accident" claim, "suit" or "loss" is known to:

  1. You, if you are an individual;
  2. A partner, if you are a partnership;
  3. An executive officer of the corporation or insurance manager, if you are a corporation; or
  4. A manager, if you are a limited liability company.

EXHIBIT 5

Board Authorization

**14-1370**

**Presented by:** MARY JO HORACE, Interim Chief Information Officer, Bureau of Technology

**PROPOSED CONTRACT (TECHNOLOGY)**

**Department(s):** Bureau of Technology, Department of GIS

**Vendor:** Radio Satellite Integrators, Inc., Torrance, California

**Request:** Authorization for the Chief Procurement Officer to enter into and execute

**Good(s) or Service(s):** Automated vehicle tracking software and devices

**Contract Value:** \$1,736,800.00

**Contract period:** 3/1/2014 - 2/28/2019

**Potential Fiscal Year Budget Impact:** FY 2014: \$576,240.00, FY 2015: \$290,140.00, FY 2016: \$290,140.00, FY 2017: \$290,140.00, FY 2018: \$290,140.00.

**Accounts:** 545-260

**Contract Number(s):** 12-28-318

**Concurrence(s):**

The vendor has met the Minority and Women Owned Business Enterprise Ordinance.

The Chief Procurement Officer concurs.

**Summary:** BOT desires to implement an AVL system to enhance the ability to efficiently manage the assignment of County vehicle operations. BOT will also use the AVL and mobile data system to increase safety, productivity, and service to the citizens in area of operations. The County needs to manage and operate GPS hardware, software and services to support the effective management of the County's fleet. Some of the desired outcomes include: improving emergency response, tracking snow removal and roadway maintenance, analyzing routes, having robust reporting capabilities and support for telemetry and telematics technology.

APPROVED BY BOARD OF  
COOK COUNTY COMMISSIONERS

FEB 19 2014

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