MASTER SOFTWARE IMPLEMENTATION SERVICES AGREEMENT

THIS MASTER SOFTWARE IMPLEMENTATION SERVICES AGREEMENT ("Implementation Services Agreement") is made and entered into this _____ day of ______, 2014 ("Effective Date") by and between: N. HARRIS COMPUTER CORPORATION ("Consultant"), a Foreign Corporation with authority to transact business within the State of Missouri, and with its principal place of business at 1 Antares Drive, Suite 400, Ottawa, Ontario K2E 8C4, and THE CITY OF COLUMBIA ("Client"), a Missouri municipal corporation, with its principal place of business at 701 E Broadway, 5th Floor, Columbia, Missouri 65201. Client and Consultant are each individually referred to herein as a "Party" and collectively as the "Parties."

RECITALS

- 1. The Client wishes to retain Consultant to perform the Services (as defined herein).
- 2. The Client and Consultant agree to enter into three (3) separate agreements each dealing with a separate aspect of the software: a Master Software License Agreement, a Master Support and Maintenance Agreement and a Master Software Implementation Services Agreement.

NOW THEREFORE, in consideration of the mutual covenants set out in this Agreement and for other good and valuable consideration (the receipt and sufficiency of which is hereby acknowledged), the Parties agree as follows:

ARTICLE I INTERPRETATION

1.1 **Definitions**

Throughout this Agreement, except as otherwise expressly provided, the following words and expressions shall have the following meanings:

- (a) "Agreement" and similar expressions mean this Software Implementation Services Agreement, including all of its Schedules and all instruments supplementing, amending or confirming this Agreement. All references to "Articles" or "Sections" mean and refer to the specified Article or Section of this Agreement except where a different agreement is explicitly identified.
- (b) "Change Order" means any written documentation between the Client and Consultant evidencing their agreement to change particular aspects of this Agreement with no increase in cost. Any services that are considered to be materially out of the scope of the Agreement or result in an increase in the contract price shall only be approved by written amendment to the Agreement.

- (c) "Completion of Services" means that the Software is fully operational and performing in conformity with the specifications set out herein, including the Client's Functional Specifications.
- (d) "Contract Documents" means the following documents:
 - a) Master Software License Agreement and attached Schedules
 - b) Master Software Implementation Services Agreement and attached Schedules
 - c) Master Support and Maintenance Agreement and attached Schedule and Exhibits
 - d) Scope of Work Attached as Schedule "A" to this Agreement
 - e) Documents from Consultant's Proposal including the cover letter, pages 1-5, 13-132, and 142-156, the proposed Project Plan (pages 1-15), responses to the General and Technical Specifications (pages 1-12), and responses to the Utility Billing Specifications (pages 1-20).— Attached as Schedule "D"
- (e) "Deliverable" means whether used in the singular or plural the Software, data conversion, interfaces, written reports, training, and configuration.
- (f) "Project Schedule" means the graphic depiction (Microsoft Gantt chart) describing the start date, any intermediate milestone dates and the completion date by which Consultant and Client are required to perform their obligations under the Scope of Work. Such schedule may be amended or modified by mutual specific written agreement of the Parties' respective representatives from time to time in accordance with the terms of this Agreement.
- (g) "Required Programs" has the meaning set out in Article II (b) hereof.
- (h) "Scope of Work" means the scope of work appended hereto as Schedule "A" delineating, among other things, the Services that will be provided by Consultant to Client pursuant to this Agreement, as such schedule may be amended or modified by mutual specific written agreement of the parties' respective representatives from time to time in accordance with the terms of this Agreement.
- (i) "Services" has the meaning set out in Article II hereof.
- (j) "Software" means the program material in machine-readable or interpreted form, and may include, where appropriate, listings of either machine code or source code and related materials, including instructions and documentation provided by Consultant to Client, including any such programs provided subsequent to this Agreement, and including all copies made by Client. The Software to be provided by Consultant at the inception of this Agreement is identified on Schedule "A," of the Master Software License Agreement. Third

Party Software is included in the definition of Software except where License Agreement explicitly states otherwise.

- (k) "System" means all software modules licensed by Consultant to the Client as configured to meet Client's requirements and Functional Specifications set forth in the Contract Documents. This includes modifications, customizations and data interfaces or exchanges as outlined in the Scope of Work.
- (1) "Third Party Software" means the third party software product licensed to the Client by Consultant and described in Schedule "A" of the Master Software License Agreement.

To the extent that a capitalized word is used in this Agreement, should it not be properly defined in this Agreement then it shall have the meaning attributed to it in the Software License Agreement executed concurrently with this Agreement. Any discrepancy between a defined term in this Agreement and one in the Software License Agreement shall be resolved in favor of the definition in Master Software License Agreement, to the extent that there is an inconsistency.

1.2 <u>Schedules</u>

The Schedules described below and appended to this Agreement shall be deemed to be integral parts of this Agreement.

Schedule "A" - Scope of Work

Schedule "B" - Fee Structure & Payment Schedule

Schedule "C" - Sample Form Change Order

Schedule "D" - Documents from Consultant's Proposal including the cover letter, pages 1-5, 13-132, and 142-156, the proposed Project Plan (pages 1-15), responses to the General and Technical Specifications (pages 1-12), and responses to the Utility Billing Specifications (pages 1-20).

In the event of any conflict or inconsistency between the terms and conditions in the main body of this Agreement and the terms and conditions in any Schedule, the terms and conditions of the main body of this Agreement shall control.

ARTICLE II CONSULTING SERVICES

2.1 Consultant's Services

In order to achieve the Completion of Services, Consultant agrees, subject to the terms and conditions of this Agreement, to perform the following services (the "Services") for the Client as more fully described in the Scope of Work in Schedule "A":

- (a) Oversee and implement the conversion from the Client's existing software applications to Consultant's Software substantially in accordance with the Scope of Work and timetable specified in the Project Schedule.
- (b) Install the Software and perform necessary set up and configuration operations, and perform testing in accordance with the Scope of Work and timetable specified in the Project Schedule.
- (c) Oversee and implement interfaces or data exchanges required by the Client as specified in the Scope of Work and perform testing in accordance with the Scope of Work and timetable specified in the Project Schedule.
- (d) Provide training substantially in accordance with the Scope of Work and timetable specified in the Project Schedule.
 - (i) Consultant recommends a maximum of twelve (12) people in each training class for optimal training.
 - (ii) Client is required to make copies of the training manuals required for the training classes either by photocopy or electronic duplication each of which is subject to the restrictions and obligations contained in this Agreement.

On-line reference documentation is delivered with each release. Client may print this documentation solely for its internal use.

- (iii) Consultant shall provide all standardized classroom training courses associated with this Agreement on-site at Client at such time as agreed upon by Client and Consultant project managers according to the Project Schedule.
- Cancellation of any on-site Services by Client is allowed for any (iv) reason if done in writing more than fourteen (14) days in advance of such Services. Provided Consultant has given Client thirty (30) days' notice of training and the Consultant's requirements for the training including information on assigned tasks to Client, Client will be billed for any nonrecoverable direct costs incurred by Consultant that result from a cancellation by Client with fourteen (14) days or less of scheduled on-site Services. Additionally, Client hereby acknowledges that cancellation of on-site Services means that such on-site Services will be rescheduled as Consultant's then current schedule permits. Consultant is not responsible for any delay in Client's project resulting from Client's cancellation of Services. If upon Consultants arrival, the Client is not adequately prepared or has not completed the assigned tasks for such visit by Consultant, then the Client will be billed 100% of the on-site fee and scheduled on-site Services can be cancelled by Consultant. If additional Services are required because the Client was not adequately prepared, Consultant will

provide either a Change Order or a proposed contract amendment to the Client for the additional Services. Notwithstanding the foregoing, Consultant shall not bill Client and Client shall not be responsible for any costs if Consultant has not provided Client with written notice of the training requirements and assigned tasks thirty (30) days prior to the training date.

- (v) In the event the Parties agree to cancel any on site Services, Consultant shall make available resources to perform the canceled Services within fourteen (14) days of the cancellation notice, or otherwise agreed to by the Parties.
- Consultant shall submit to Client an agenda of training topics, (vi) timing and Client resources expected to participate, and training manuals which are the subject of a training session two weeks in advance of any such training session. Consultant shall provide to the Client all details associated with the layout of the training facility, computer requirements, as well as all associated media necessary to deliver the course. Further, Consultant shall prepare the training database and environment in advance such that users have hands on training on the Software. Consultant shall provide training/software functionality demonstrations to Client prior to the software being configured to meet the Client's requirements. Consultant shall also provide training to Client after the software has been configured to meet the Client's requirements. Client agrees to conduct a rating of the course after its completion and communicate the results of this rating to Consultant. In the event it is determined by consensus of the Client that the training was "ineffective" due to lack of preparation by Consultant or other training deficiency, Consultant shall remedy the deficiencies and repeat the session in question at no cost to Client.
- (e) The Scope of Work describes in greater detail the Services, the method by which the Services shall be performed and other obligations on the part of the two Parties. To the extent that the Scope of Work more explicitly details the Services or the obligations of a Party, then those details shall prevail over any other document that is less explicit.

2.2 Performance by Consultant

(a) Manner of Performance -- Consultant warrants that it shall perform the Services in a professional and workmanlike manner and shall only use qualified and experienced personnel. Consultant shall maintain sufficient employees for the performance of all terms under this Agreement. Consultant warrants and agrees that, at all times, the employees of Consultant furnishing or performing any services shall do so in a proper, workmanlike, and dignified manner.

(b) <u>Consultant's Discretion</u> -- Consultant shall determine in its sole discretion the manner and means by which the Services shall be performed, with due consideration of adequate knowledge transfer to the Client personnel. Consultant will communicate openly with the Client on its methodology, manner and means.

(c) Conduct on Client's Premises

- (i) Consultant agrees that all of its employees who are working for or on behalf of Consultant upon the Client's premises shall obey the rules and regulations that are established by the Client and shall comply with the reasonable directions of the Client's Project Manager.
- (ii) Consultant shall be responsible for the acts of its employees and agents while on the Client's premises. Accordingly, Consultant agrees to take all necessary measures to prevent injury and loss to persons or property located on the Client's premises. Consultant shall be responsible for all damages to persons or property caused by Consultant or any of its agents or employees. Consultant shall promptly repair, to the specifications of the Client, any damage that it, or its employees or agents, may cause to the Client's premises or equipment within the time period agreed to by the Parties. On Consultant's failure to do so or if the Parties cannot agree to a time period for repairs, the Client may repair such damage and Consultant shall reimburse the Client within thirty (30) days for the cost of any repairs.
- (iii) Consultant agrees that, in the event of an accident of any kind, Consultant shall immediately notify the Client's Project Manager and shall furnish a full written report of such accident.
- (iv) Consultant shall perform the services contemplated in the Agreement without interfering in any way with the activities of the Client's employees or visitors.
- (v) Consultant and its employees or agents shall have the right to use only those facilities of the Client that are necessary to perform services under this Agreement and shall have a right to access any other facilities of the Client only with the permission of the Client's Project Manager.
- (vi) The Client shall have no responsibility for the loss, theft, mysterious disappearance of, or damage to equipment, tools, materials, supplies, and other personal property of Consultant or its employees, agents, subcontractors, or material-men.
- (vii) Names of Subcontractors. Consultant agrees to furnish the Client's Project Manager with the name(s) of all Consultant or sub-contract personnel and their position title/roles before they come on site for security purposes.

- (d) <u>Inquiries by Client</u> Consultant shall respond no later than the next business day to any inquiries pertaining to this Agreement from the Client.
- (e) <u>Independence</u> As an independent consultant, Client retains Consultant on an independent contractor basis and not as an employee.
- (f) <u>Coordination of Services</u> Consultant agrees to work closely with Client staff in the performance of Services and shall be available to Client's staff, consultants, and other staff at all reasonable times.
- (g) Maintenance and Inspection Consultant shall maintain complete and accurate records with respect to all costs and expenses incurred under this Agreement. All such records shall be clearly identifiable. Consultant shall allow a representative of Client, during normal business hours, to examine, audit, and make transcripts or copies of such records and any other documents created, pursuant to the Agreement. Consultant shall allow inspection of all work, data, documents, proceedings, and activities related to the agreement for a period of three (3) years from the date of final payment under this Agreement unless Consultant is required to maintain such records pursuant to any law or regulation.
- (h) <u>Subcontractors</u> Consultant may use subcontractors in connection with the work performed under this Agreement. When using subcontractors, however, Consultant shall obtain written prior approval from the Client for activities or duties to take place at the Client site. In using subcontractors, Consultant shall be responsible for all their acts and omissions to the same extent as if the subcontractors were employees of Consultant.
- (i) Approval of Consultant Subcontractors and Staff Client shall have the right to interview and approve all subcontractors, Consultant's Project Manager, and employees assigned to Client by Consultant prior to commencement of work by Consultant. In the event that an employee, subcontractor or agent of Consultant is, in the reasonable opinion of the Client, uncooperative, inept, incompetent, or otherwise unacceptable, Consultant agrees to remove such employee, subcontractor or agent from his or her responsibilities associated with the Agreement. In the event of such a removal, Consultant shall, within fifteen (15) business days, fill this representative vacancy as described above. Regardless of whom Consultant has designated as its representative, Consultant shall remain the ultimately responsible for performing the tasks and responsibilities presented in this Agreement.
- (j) <u>Developed Solution</u> This Agreement sets forth the terms and conditions upon which Consultant will provide a "Developed Solution" for installation of the Software for use by the Client. Consultant shall provide a complete "Developed Solution" to the Client inclusive of Software and Services as defined in Schedule "A" Scope of Work. Consultant shall take full responsibility for the successful installation of the Software in all phases of design, installation, training,

conversion, testing, interface/data exchange development and configuration but that Client acknowledges and agrees that no solution is 'standard' and that the installation process is intricate and subject to unforeseen circumstances beyond the control and contemplation of Consultant. The Client must be fully involved and provide such assistance and information as is necessary for the effective and successful implementation of the Software. The Developed Solution shall also include software and services provided by third parties under contract with Consultant. The Parties agree that the Scope of Work is an actual negotiated document detailing the precise Services to be performed and the related deliverables and milestones.

- (k) <u>Liquidated Damages</u>. In the event that Consultant shall fail to meet the Go-Live date per the mutually agreed, approved and documented Go-Live date in the Project Schedule, the amount payable by Client to Consultant shall be reduced as follows by only one of the applicable subsections (and where no subsection applies, no liquidated damages are payable):
 - i. If Go-Live occurs 31 to 60 days beyond the approved Go Live date, the amount payable by Client to Consultant shall be reduced by \$10,000; or
 - ii. If Go-Live occurs 61-90 days beyond the approved Go Live date, the amount payable by Client to Consultant shall be reduced by \$20,000; or
 - iii. If Go-Live occurs 91 days or more beyond the approved Go Live date, the amount payable by Client to Consultant shall be reduced by \$50,000.

In no event shall the reduction in the amount payable to Consultant by Client for schedule delays exceed \$50,000.

Notwithstanding the foregoing, said liquidated damages shall not apply if the failure is caused in whole or in part by Client, or the failure is caused in whole or in part by another provider under contract with Client for work related to the Project, or as a result of events of Force Majeure. In the event that Client shall suspend the performance of work, delay any deliverable date, or cause a delay in performance by failing to fulfill any of its obligations under this Agreement, then any applicable delivery schedule shall be extended by a period of time equal to the time lost because of any such delay. All liquidated damages shall be considered to be direct damages paid by Consultant.

The total amount of any liquidated damages assessed may be used by the Client as credits to offset software maintenance payments, spread equally across the following two (2) years of maintenance. In the event the Services are not completed or this Agreement is terminated as provided therein, the amount of liquidated damages assessed prior to the date of termination, may first be deducted by the Client from any remaining amount due to Consultant for Services performed and accepted as provided under this Agreement. The Client may also deduct and/or withhold from payments remaining due or sums remaining unpaid

under this Agreement to Consultant as partial or total payment of liquidated damages.

Any disagreements as to the validity and responsibility of the cause of delay to the Go Live date or in relation to a dispute regarding the notices for liquidated damages described above shall first be submitted to mediation pursuant to this Agreement prior to initiating litigation.

2.3 Performance by Client

- (a) <u>Cooperation by Client</u> -- The Client acknowledges that the success and timeliness of the implementation process shall require the active participation and collaboration of the Client and its staff and agrees to act reasonably and cooperate with Consultant to achieve the Completion of Services and installation of the Software.
- Required Programs -- The Client acknowledges that the use of the Software (b) requires that the Client obtain and install additional required software programs (the "Required Programs"), as detailed in Schedule "A" of the Software License Agreement, and the Client agrees that the acquisition of the Required Programs shall be at its sole cost and that the cost thereof is not included in the fees herein. The Client further acknowledges that the operation of the Software requires the Client's hardware to be of sufficient quality, condition and repair, and the Client agrees to maintain its hardware in the appropriate quality, condition and repair at its sole cost and expense except as provided in Section 3.01(d) of the Master Software License Agreement, in order to facilitate the achievement of Completion of Services. If the Client has not properly installed the Required Programs on hardware of sufficient quality, condition and repair, Consultant shall have the right to suspend the Services and the related scheduled time frames until these issues have been dealt with by Client sufficiently and to Consultant's reasonable satisfaction.
- (c) <u>Project Manager</u> -- The Client shall appoint a project manager (the "Project Manager") who shall work closely with Consultant to facilitate the successful completion of the implementation process and who shall be responsible for supervising the staff of the Client and their cooperation with and participation in such process.

(d) Additional Client Obligations

- (i) Client shall install Updates within a reasonable period of time of Consultant's notification of their availability.
- (ii) Client shall notify Consultant of suspected defects in any of the Software supplied by Consultant. Client shall provide, upon Consultant request,

additional data deemed necessary or desirable by Consultant to reproduce the environment in which such defect occurred.

- (iii) Client shall allow the use of online diagnostics on the Software supplied by Consultant to Client, if required by Consultant during problem diagnosis. Client shall provide to Consultant, at Client's expense, access to the Designated Computer System via the Client's firewall to communications software (e.g. PC Anywhere, WebEx, Web Demo).
- (iv) Client shall ensure that its personnel are, at relevant stages of the project, educated and trained in the proper use of the Software in accordance with applicable Consultant manuals and instructions. If Client's personnel are not properly trained as mutually determined by Consultant and Client, Client agrees that such personnel will be trained by Consultant or Client within fifteen (15) days of determination. If Client desires Consultant to perform the required training then Consultant shall be compensated in accordance with this Agreement.
- (v) Client shall establish proper backup procedures necessary to replace critical Client data in the event of loss or damage to such data from any cause. Client shall provide Consultant with access to qualified functional or technical personnel to aid in diagnosis and to assist in repair of the Software in the event of error, defect or malfunction.
- (vi) Client shall have the sole responsibility for:
 - (A) the performance of any tests it deems necessary prior to the use of the Software.
 - (B) proper Designated Computer System installation, configuration, verification, audit controls and operating methods.
 - (C) implementing proper procedures regarding security and accuracy of input and output and restart and recovery in the event of malfunction.
 - (D) timely upgrade and all third party license releases and/or Software products to meet the requirements of the Software.

2.4 Non-performance Escalation

In the event that the Client reasonably determines that Consultant is not performing in a manner consistent with the Agreement, and specifically, to performing its duties as required in the Scope of Work and in accordance with the Project Schedule, then the Client shall have the right to, in the sequence shown: (a) formally notify Consultant of non-performance, (b) provide thirty (30) days from notification by Client for Consultant to correct non-performance after which time the Client reserves the right to withhold any and all disputed

payments pending, including support and maintenance agreement fees, until the non-performance is corrected, (c) request a joint meeting of Consultant and Client decision makers to attempt to resolve the non-performance, (d) require a Consultant employee to be on-site at Client's location at Consultant's sole expense until the non-performance is resolved, (e) request a mediation of the dispute, (f) terminate the Agreement, or (g) initiate a legal proceeding to resolve the claim, controversy or dispute. Consultant shall have the right to request any dispute be subject to mediation prior to the Client's rights to the recourse provided in subsections (f) and (g).

2.5 Allowance for Suspension or Delay due to Client

In the event that the Client shall suspend the performance of Services, delay any deliverable date, or cause a delay in performance by failing to fulfill any of its obligations, then the following shall apply:

- a) Any applicable delivery dates in the Project Schedule shall be extended by a period of time equal to the time lost because of any such delay.
- b) The due date for any deliverable set forth in the Scope of Work and Project Schedule that is dependent on such performance by the Client shall be deemed adjusted equitably to allow for the effect of such delay on Consultant's ability to supply or perform such deliverable.

Following such an event, Consultant shall have all reasonable travel costs (e.g. airfare, hotel) incurred by it that are non-refundable reimbursed by Client, including for any Services that will be required to be redone as a direct result of the delay by the Client.

2.6 Project Schedule and Acceptance

Consultant shall develop a detailed Project Schedule that details both Consultant's and Client's responsibilities. The Project Schedule should be in sufficient detail to specify the conversion, training, testing, acceptance, and live operation activities. Unless the Parties agree otherwise in writing, the Parties agree that a mutually agreeable Project Schedule will be submitted and approved by Client within sixty (60) days of the Notice to Proceed. The Client acknowledges that it is required to negotiate in good faith the Project Schedule. In the event Consultant, at its sole fault, is unable to provide the Project Schedule within sixty days of the Notice to Proceed or as otherwise agreed to by the Parties, Client will have at its option, the ability to terminate the Agreement and obtain all fees paid to Consultant. The Project Schedule will also include the criteria by which the Software, data conversions, data exchanges or interfaces, modifications and customizations will be tested and accepted by the Client.

2.7 <u>Software Support and Maintenance Agreement</u>

Consultant and the Client have agreed to enter into a separate Software Support and Maintenance Agreement which describes the maintenance and support services to be provided by Consultant to the Client. Consultant shall have no obligation under this Agreement to render any maintenance services or related services with respect to non-Consultant software, including Third Party Software included in Schedule "A" of the Master Software License Agreement except as contracted for in writing with the Client.

ARTICLE III FEES AND PAYMENTS

3.1 Fees and Payments

- (a) The Client agrees to pay Consultant total fees as delineated in Schedule "B". The fee structure and payment schedule is outlined in the attached Schedule "B".
- (b) During the term of this Agreement, Consultant shall, from time to time, deliver invoices to Client. Each invoice delivered to Client by Consultant shall be due and payable within thirty (30) days upon receipt by Client.
- (c) The Client shall reimburse Consultant for its direct expenses estimated at \$180,000.00 USD however should anticipated expenses exceed estimate, Consultant will provide Client with a contract amendment as defined in Section 3.2 prior to incurring any expenses in excess of \$180,000.00 USD. Direct expenses include, but are not limited to all reasonable travel costs including a travel time rate of \$75.00 per hour to be capped at 5 hours per round trip, meal expenses of not more than \$65.00 per diem (no receipts provided however the total number of per diems invoiced will be provided), a mileage charge based on the current Internal Revenue Service recommended rate per mile, long distance telephone calls and all other reasonable expenses incurred in the performance of Consultant's duties.
- (d) In the event ground transportation is necessary, an automobile will be rented of a small to mid-size variety. If air transportation is necessary, coach travel will be utilized, and all airline flights shall be booked in advance and the lowest possible fare obtainable. All effort will be made to schedule all training minimally one month in advance with Client and therefore, allowing sufficient time for booking airlines. Consultant shall provide the Client a detailed invoice, which outlines the individual, date, and related expenses (with the exception of per diems). In the event of a dispute of the invoice, the Client will notify Consultant within fifteen (15) days of the receipt of such invoice and may ask for further clarification. In the event Client fails to pay all or any portion of an invoice on or before thirty (30) days after the date of the invoice, the invoice payment shall be considered past due.
- (e) In the event Client fails to pay all or any portion of an undisputed invoice on or before ninety (90) days after the date it becomes due, in addition to all other remedies Consultant has under this Agreement or otherwise, Consultant shall have the option to suspend or terminate all Services under this Agreement, provided, however, that Consultant shall provide written notice to Client ten (10) business days prior to suspension or termination of services. Suspension or

- termination of any such Services shall not relieve the Client of its obligation to pay its outstanding, undisputed invoices, including any applicable late charges.
- (f) Harris Consultant shall be responsible for paying all taxes, fees, assessments and premiums of any kind payable on its employees and operations. Client is exempt from sales tax and shall provide Consultant with the tax exempt certificate.

3.2 Change Orders and Amendments to the Agreement

With respect to any proposed changes to the Services defined by this Agreement that do not materially impact the scope of either Party's work effort required under this Agreement, the Parties will cooperate in good faith to execute Change Orders in respect thereof, and will not unreasonably withhold approval of such proposed changes. If either Party causes or requests a change that, in the reasonable opinion of the other Party, materially impacts the scope of the Parties' work effort required under this Agreement, such as, but not limited to, changes in the allocation of the resources of the Client and of Consultant applied to a task, changes in completion schedules for individual tasks or for overall implementation, and changes in staffing that require a Party to provide additional work hours, the other Party may propose an amendment to the Agreement to cover the additional work effort required of it.

ARTICLE IV REMEDIES AND LIABILITY

4.1 Remedies and Liability

- (a) Termination of this Agreement shall not affect any right of action of either Party arising from anything which was done or not done, as the case may be, prior to the termination taking effect.
- (b) The Client and Consultant recognize that circumstances may arise entitling the Client to damages for breach or other fault on the part of Consultant arising from this Agreement. The Parties agree that in all such circumstances the Client's remedies and Consultant's liabilities will be limited as set forth below and that these provisions will survive notwithstanding the termination or other discharge of the obligations of the parties under this Agreement.
 - (i) EXCEPT FOR DAMAGES ARISING OUT OF (a) CONSULTANT'S BREACH OF ITS CONFIDENTIALITY OBLIGATIONS, (b) CONSULTANT'S INTENTIONAL MISREPRESENTATION, GROSS NEGLIGENCE OR WILLFUL MISCONDUCT, (c) INJURY OR DEATH TO PERSONS OR (d) DAMAGE TO TANGIBLE OR REAL PROPERTY, BOTH PARTIES AGREE THAT CONSULTANT'S LIABILITY (UNDER BREACH OF CONTRACT, NEGLIGENCE, STRICT LIABILITY OR OTHERWISE), IF ANY, FOR ANY DAMAGES RELATING TO THIS AGREEMENT SHALL NOT

EXCEED 1.0 TIMES THE SERVICES FEES PAID TO CONSULTANT BY THE CLIENT IN CONNECTION WITH THIS AGREEMENT.

- (ii) IN ADDITION TO THE FOREGOING, NEITHER PARTY SHALL BE LIABLE FOR CONSEQUENTIAL, INCIDENTAL, INDIRECT, SPECIAL OR OTHER DAMAGES OF ANY KIND, INCLUDING BUT NOT LIMITED TO LOST REVENUE, LOSS OF DATA OR LOSS OF PROFITS, EVEN IF SUCH OTHER PARTY HAS BEEN ADVISED OF THE LIKELIHOOD OF THE OCCURRENCE OF SUCH DAMAGES AND NOTWITHSTANDING ANY FAILURE OF ESSENTIAL PURPOSE OF ANY LIMITED REMEDY.
- (iii) CLAUSES (i) AND (ii) SHALL APPLY IN RESPECT OF ANY CLAIM, DEMAND OR ACTION BY A PARTY IRRESPECTIVE OF THE NATURE OF THE CAUSE OF ACTION UNDERLYING SUCH CLAIM, DEMAND OR ACTION, INCLUDING, BUT NOT LIMITED TO, BREACH OF CONTRACT OR TORT.

4.2 <u>Intent</u>

The Parties agree that the limitation of liability as set out in Section 4.1 above shall apply under any circumstances (including as a result of a default under this Agreement, a tort related claim or breach of contract). For the purposes of Section 4.1 only, a Party relying on the limitation of liability shall be deemed to include that Party's shareholders, directors, officers, employees, elected officials and affiliates.

ARTICLE V INDEMNITY

5.1 Indemnity

- (a) To the extent permitted by law, Consultant shall indemnify and hold harmless Client and its agents, officials and employees from and against any and all direct claims, losses, liabilities, damages, costs and expenses (including reasonable attorney's fees and costs) for personal injury or property damage arising from Consultant's negligence or willful misconduct.
- (b) To the extent permitted by law, Client shall indemnify and hold harmless Consultant and its agents, officials and employees from and against any and all direct claims, losses, liabilities, damages, costs and expenses (including reasonable attorney's fees and costs) for personal injury or property damage arising from Client's negligence or willful misconduct.

ARTICLE VI ACCEPTANCE TESTING

Client anticipates performing formal acceptance testing of Deliverables obtained from Consultant and on the System as a whole. This acceptance testing will begin upon formal written notification from Consultant to Client that a Deliverable has been completed and is ready for testing. Upon receipt of this notification, Client will have thirty (30) days in which to complete the acceptance testing for each Deliverable unless such acceptance testing period is otherwise outlined in the Project Schedule. In the event Client determines that a Deliverable does not meet the requirements as defined in the Contract Documents and Documentation, Client shall notify Consultant of such in writing, at which time acceptance for that specific Deliverable will be suspended. Consultant will then have thirty (30) days to satisfy the deficiency, at which time the acceptance testing will be resumed for that Deliverable. In no event shall the time period for acceptance testing by the Client after correction of a deficiency by Consultant be less than ten (10) business days or more than fifteen (15) business days.

At least thirty (30) days prior to Go-Live as described in the Scope of Work project acceptance criteria (the "Punch List") will be mutually agreed and documented. The Punch List will exclude any interfaces identified as post live in the Scope of Work. "Acceptance" of a Punch List item shall be considered to occur upon the earlier of completion of a Punch List item to the reasonable satisfaction of the Client or ten (10) business days from Client's receipt of the Punch List item from Consultant unless Client has provided written notification to Consultant of any deficiencies. "Final System Acceptance" occurs upon the Acceptance of all Punch List items. Upon Final System Acceptance, an amount equal to ten percent (10%) of the service fees for the project phase will be payable by the Client.

ARTICLE VII GENERAL

7.1 Force Majeure

Neither Party shall be liable for delay or failure in performance resulting from acts beyond the control of such party (force majeure) including, but not limited to, acts of God, acts of war or of the public enemy, riots, fire, flood, or other natural disaster, acts of government, strike, walkout, communication line or power failure, failure in operability or destruction of the Client's computer (unless by reason of the negligence of a Party to this Agreement) or failure or inoperability of any software other than the Software. Any applicable delivery schedule shall be extended by a period of time equal to the time lost because of any such delay.

120 Day Maximum

Under no circumstances shall delays caused by a force majeure extend beyond 120 days from the scheduled delivery or completion date of a task, unless prior to the expiration of the 120

days, written notice of permission of the other Party is received which will not be unreasonably withheld. Failure to secure this written prior permission, even in the case of force majeure, shall constitute default by the Party failing to meet the requirement.

Right of Cancellation For Force Majeure

Either Party shall have the right to cancel the Agreement if Force Majeure suspends performance of scheduled tasks by one or more parties for a period of 120 or more days from the scheduled date of the task.

7.2 Confidentiality

- (a) <u>Duty Owed to the Client</u> -- Consultant acknowledges that it may receive information from the Client or otherwise in connection with this Agreement or the performance of the Services. Except for information in the public domain, unless such information falls into the public domain by disclosure or other acts of the Client or through the fault of the Client, Consultant agrees:
 - (i) to maintain this information in confidence;
 - (ii) not to use this information other than in the course of this Agreement;
 - (iii) not to disclose or release such information except on a need-to-know only basis:
 - (iv) not to disclose or release such information to any third person without the prior written consent of the Client, except for authorized employees or agents of Consultant; and
 - (v) to take all appropriate action, whether by instruction, agreement or otherwise, to ensure that third persons with access to the information under the direction or control or in any contractual privity with Consultant, do not disclose or use, directly or indirectly, for any purpose other than for performing the Services during or after the term of this Agreement, any material or information, including the information, without first obtaining the written consent of the Client.

7.3 <u>Termination</u>

- (a) Except for those terms that explicitly survive the expiration or termination of this Agreement, this Agreement shall expire upon the Completion of Services.
- (b) If Consultant should neglect to perform the Services properly or otherwise fail to comply with the requirements of this Agreement, the Client must notify Consultant in writing of such default (a "Default Notice"). Upon receipt of a Default Notice, Consultant must either correct the default at no additional cost to the Client, or issue a written notice of its own disputing the alleged default, in

either case within thirty (30) days immediately following receipt of a Default Notice. If Consultant fails to correct the default, or issue a notice disputing the alleged default, in either case within ninety (90) days following receipt of the Default Notice, the Client may terminate the whole of this Agreement or the part of this Agreement relating to the provision of Services and in such case will be responsible for payment to Consultant of only that part of the fee earned by Consultant for those Services performed up to the time of communication of such notice of termination to Consultant.

- (c) If the Client should fail to comply with its obligations under this Agreement, Consultant must notify the Client in writing of such default (a "Default Notice"). Upon receipt of a Default Notice, the Client must correct the default at no additional cost to Consultant, or issue a written notice of its own disputing the alleged default, in either case within thirty (30) days immediately following receipt of a Default Notice. If the Client fails to correct the default, or issue a notice disputing the alleged default, in either case within ninety (90) days following receipt of the Default Notice, Consultant may terminate the whole of this Agreement and in such case the Client will be responsible for payment to Consultant of only that part of the fee earned by Consultant for that part of the Services performed in accordance with this Agreement up to the time of communication of such notice of termination to the Client.
- (d) The termination of this Agreement prior to the Completion of Services shall result in the concurrent termination of the Support and Maintenance Agreement and of the Software License Agreement.
- (e) The termination or expiration of this Agreement following the Completion of Services shall not affect the rights of either Party in either the Support and Maintenance Agreement or the Software License Agreement.

7.4 Mediation

The Parties agree to submit any claim, controversy or dispute arising out of or relating to this Agreement or the relationship created by this Agreement to non-binding mediation before bringing a claim, controversy or dispute in a court or before any other tribunal. The mediation is to be conducted by either an individual mediator or a mediator appointed by mediation services mutually agreeable to the Parties. The mediation shall take place at a time and location which is also mutually agreeable; provided; however, in no event shall the mediation occur later than ninety (90) days after either Party notifies the other of its desire to have a dispute be placed before a mediator. Such mediator shall be knowledgeable in software system agreements. The costs and expenses of mediation, including compensation and expenses of the mediator (and except for the attorneys fees incurred by either Party), is to be shared by the Parties equally. If the Parties are unable to resolve the claim, controversy or dispute within ninety (90) days after the date either Party provides the other notice of mediation, then either Party may bring and initiate a legal proceeding to resolve the claim, controversy or dispute unless the time period is extended by a written agreement of the Parties.

7.5 Addresses for Notice

Any notice required or permitted to be given to any Party to this Agreement shall be given in writing and shall be delivered personally, mailed by prepaid registered post or sent by facsimile to the appropriate address or facsimile number set out below. Any such notice shall be conclusively deemed to have been given and received on the day on which it is delivered or transmitted (or on the next succeeding business day if delivered or received by facsimile after 5:00 p.m. local time on the date of delivery or receipt, or if delivered or received by facsimile on a day other than a business day), if personally delivered or sent by facsimile or, if mailed, on the third business day following the date of mailing, and addressed, in the case of Consultant, to:

N. HARRIS COMPUTER CORPORATION

1 Antares Drive, Suite 400 Ottawa, Ontario K2E 8C4

Attention: CEO

Telephone: 613-226-5511, extension 2149

Fax: 416-496-3910

and in the case of the Client, to:

CITY OF COLUMBIA, MISSOURI

701 E Broadway, 5th Floor Columbia, MO 65201

Attention: Will Hobart, Purchasing Agent

Telephone: 573-874-7687 Fax: 573-874-7762

Each Party may change its particulars respecting notice, by issuing notice to the other Party in the manner described in this Section 7.5.

7.6 Assignment

Neither Party may assign any of its rights or duties under this Agreement without the prior written consent of the other Party, except that either Party may assign to a successor entity in the event of its dissolution, acquisition, sale of substantially all of its assets, merger or other change in legal status. The Agreement shall inure to the benefit of and be binding upon the Parties to this Agreement and their respective successors and permitted assigns.

7.7 Reorganizations

The Client acknowledges that where a "Reorganization" occurs as that term is defined in the Software License Agreement, the same provisions related thereto shall apply to this Agreement. The application of a Reorganization may result in a change in the fees provided for in these provisions.

7.8 Entire Agreement

This Agreement shall constitute the entire agreement between the Parties hereto with respect to the matters covered herein. No other agreements, representations, warranties or other matters, oral or written, purportedly agreed to or represented by or on behalf of Consultant by any of its employees or agents, or contained in any sales materials or brochures, shall be deemed to bind the Parties hereto with respect to the subject matter hereof. Client acknowledges that it is entering into this Agreement solely on the basis of the representations contained herein. However, the Parties agree that two other agreements are being entered into concurrently with this Software Implementation Services Agreement. These two other agreements are the Master Software License Agreement and the Master Software Support and Maintenance Agreement, each of which are separate agreements and are binding in their own right and upon their own terms.

7.9 <u>Section Headings</u>

Section and other headings in this Agreement are for reference purposes only, and are in no way intended to describe, interpret, define or limit the scope or extent of any provision hereof.

7.10 Governing Law and Venue

This Implementation Services Agreement shall be governed by, interpreted and enforced in accordance with the laws of the State of Missouri and/or the laws of the United States of America, as applicable. The venue for all litigation arising out of, or relating to this Agreement, shall be Boone County, Missouri or the United States Western District of Missouri. The Parties hereto irrevocably agree to submit to the exclusive jurisdiction of such courts in the State of Missouri and waive any defense of forum non conveniens.

7.11 Trial by Jury

Client and Consultant hereby waive, to the fullest extent permitted by applicable law, the right to trial by jury in any action, proceeding or counterclaim filed by any Party, whether in contract, tort or otherwise, relating directly or indirectly to this Agreement or any acts or omissions of Consultant in connection therewith or contemplated thereby.

7.12 **Invalidity**

The invalidity or unenforceability of any provision or covenant contained in this Agreement shall not affect the validity or enforceability of any other provision or covenant herein contained and any such invalid provision or covenant shall be deemed to be severable.

7.13 Waiver

A term or condition of this Agreement may be waived or modified only by written consent of both Parties. Forbearance or indulgence by either Party in any regard shall not

constitute a waiver of the term or condition to be performed, and either Party may evoke any remedy available under the Agreement or by law despite such forbearance or notice.

7.14 <u>Multiple Originals</u>

Three originals of this Software Implementation Services Agreement shall be executed. Consultant shall retain one original. Client shall retain two originals.

7.15 <u>Survival</u>

Section 4.1 and Articles V and VII shall survive the termination and/or expiration of this Agreement.

7.16 Competitive Bid

Client has conducted a competitive evaluation and has concluded such efforts with this negotiated Agreement (including any addenda hereto); therefore, this Agreement may serve as the basis for similar agreements whereby other entities may contract separately with Consultant. Client agrees that Consultant may disclose all or any portion of this Agreement to any of its current or prospective customers.

7.17 Further Assurances

The Parties shall do all such things and provide all such reasonable assurances as may be required to consummate the transactions contemplated hereby, and each Party shall provide such further documents or instruments required by any other Party as may be reasonably necessary or desirable to effect the purposes of this Agreement and carry out its provisions.

7.18 Independent Contractor

Client engages Consultant under this Agreement solely as an independent contractor to perform the Scope of Work and Services which are described in this Agreement. Client and Consultant expressly acknowledge and agree that Consultant is the independent contractor of Client and nothing contained in this Agreement or which otherwise exists shall be construed by Client, Consultant or any third person or entity to create a relationship of joint venturers, partners, or employer and employee.

7.19 **Amendments**

A term or condition of this Agreement may be waived or modified only by written consent of both Parties. Forbearance or indulgence by either Party in any regard shall not constitute a waiver of the term or condition to be performed, and either Party may evoke any remedy available under the Agreement or by law despite such forbearance or notice.

7.20 Public Records Act

Client is subject to the Missouri Sunshine Law. The Parties agree that this Agreement shall be interpreted in accordance with the provisions of the Missouri Sunshine Law as amended.

7.21 <u>Non-Discrimination By Consultant</u>

Neither Consultant nor anyone with whom Consultant shall contract shall discriminate against any person employed or applying for employment concerning the performance of Consultant' responsibilities under this Agreement. This discrimination prohibition shall apply to all matters of initial employment, tenure, and terms of employment, or otherwise with respect to any matter directly or indirectly relating to employment concerning race, color, religion, national origin, age, sex, sexual orientation, ancestry, disability that is unrelated to the individual's ability to perform the duties of a particular job or position, height, weight, marital status, or political affiliation. A breach of this covenant may be regarded as a default by Consultant of this Agreement.

7.22 Advertising

Consultant shall not use, in its external advertising, marketing programs, or other promotional efforts, any data, pictures, or other representation of the Client except on the specific written authorization in advance of the Client. Consultant shall not install any signs or other displays within the Client's premises. However, nothing in this clause shall preclude Consultant from listing the Client on its routine client list for matters of reference.

7.23 Organization Trademarks

Client warrants that all trademarks Client requests Consultant to affix to articles purchased are those owned by Client and it is understood that Consultant shall not acquire or claim any rights, title, or interest therein, or use any of such trademarks on any articles produced for itself or anyone other than Client.

7.24 Severability

Should any term or provision of this Agreement be held, to any extent, invalid or unenforceable, as against any person, entity or circumstance during the term hereof, by force of any statute, law, or ruling of any forum of competent jurisdiction, such invalidity shall not affect any other term or provision of this Agreement, to the extent that the Agreement shall remain operable, enforceable and in full force and effect to the extent permitted by law, except that to the extent that any provision of Article 6 or the limitation of liability is deemed to be of no force or effect, Consultant shall have the right to void this Agreement.

7.25 <u>Compliance with Laws</u>

Consultant shall, at all times, observe and comply with all federal, state, and local laws, ordinances and regulations.

7.26 Employment of Unauthorized Aliens

Consultant agrees to comply with Missouri State Statute Section 285.530 in that Consultant shall not knowingly employ, hire for employment, or continue to employ an unauthorized alien to perform work within the state of Missouri. As a condition for the award of this contract the Consultant shall, by sworn affidavit and provision of documentation, affirm its enrollment and participation in a federal work authorization program with respect to the employees working in connection with the contracted services. Consultant shall also sign an affidavit affirming that it does not knowingly employ any person who is an unauthorized alien in connection with the contracted services. Consultant shall require each subcontractor to affirmatively state in its contract with Consultant that the subcontractor shall not knowingly employ, hire for employment or continue to employ an unauthorized alien to perform work within the state of Missouri. Consultant shall also require each subcontractor to provide Consultant with a sworn affidavit under the penalty of perjury attesting to the fact that the subcontractor's employees are lawfully present in the United States.

7.27 Insurance

Prior to performing services under this Agreement, Consultant shall provide Client with certificates of insurance evidencing the following minimum insurance coverage:

- a) Commercial general liability of at least \$2,000,000;
- b) Automobile liability of at least \$2,000,000 combined single limit;
- c) Professional liability of at least \$10,000,000 aggregate; and
- d) Workers compensation complying with statutory requirements;
- e) Umbrella Liability Insurance of \$3,000,000.00.

Consultant shall cause the Client to be named as additional insured on Consultant's Commercial General Liability policy. Consultant shall use a standard Accord Form which states "Should any of the above described policies be cancelled before the expiration date thereof, notice will be delivered in accordance with the policy provisions."

7.28 No Waiver of Immunities

In no event shall the language of this Agreement constitute or be construed as a waiver or limitation for either Party's rights or defenses with regard to each Party's applicable

sovereign, governmental, or official immunities and protections as provided by federal and state constitution or law.

7.29 <u>Amendment</u>

This Agreement may only be modified by written amendment signed by the Parties.

7.30 Nature of Client's Obligations

All obligations of the Client under this Agreement, which require the expenditure of funds, are conditional upon the availability of funds budgeted and appropriated for that purpose. The Client warrants that funds have been budgeted and appropriated for the year 2015 and Client shall give prompt notice when such funds have not been budgeted and appropriated in the future.

7.31 No Intended Third Party Beneficiaries

This Agreement is entered into solely for the benefit of Consultant and Client. No provision of the Agreement is intended to nor shall it in any way inure to the benefit of any customer, property owner or any other third party, so as to constitute any such person a third-party beneficiary under the Agreement.

7.32 <u>Data Ownership and Security</u>

- (a) Consultant's Software and any Interfaces shall at all times comply with the terms of this Agreement, good financial industry and accounting practices, applicable laws, Client's Red Flag Rule, and SSAE16 or successive applicable auditing standards. Consultant shall require its subcontractors to at all times comply with the terms of this Agreement, good financial industry and accounting practices, and applicable laws.
- (b) Duty to Report. Consultant shall maintain the security of Client content and data and that of Client's customers and any user that is stored in or in any way connected with Consultant Software Products, services and applications. If either Party believes or suspects that security has been breached or data compromised, whether it be from harmful code or otherwise, the Party shall notify the other Party of the issue or possible security breach within forty-eight (48) hours.
- (c) Binding Subcontractors to Data Security Standards. Consultant shall include similar provisions in Consultant's agreements with subcontractors that perform work or services related to these Consultant Software Products and or have access to the Client's data contained therein or in the cloud storage.

- (d) No Harmful Code. Consultant warrants that the Consultant Software Products do not contain Harmful Code. For purposes of this Agreement, "Harmful Code" is any code containing any program, routine, or device which is designed to delete, disable, deactivate, interfere with or otherwise harm any software, program, data, device, system or service, including without limitation, any time bomb, virus, drop-dead device, malicious logic, worm, Trojan horse or trap or back door. Consultant shall include in contracts with any subcontractor a provision which prohibits the use of Harmful Code.
- (e) Data Ownership and Storage. Except with regard to the data Client enters into the CustomerWise software, Consultant covenants that any data from the Client, its employees or customers or derived therefrom shall be stored in the United States of America. Client must provide and maintain an adequate data conversion environment for Consultant's use as set forth in Schedule "F" of the Master Software License Agreement. The data or any information derived therefrom (hereinafter "Client's Data") shall not be transferred, moved, or stored to or at any location outside the United States of America. All such data and any information derived therefrom shall be confidential and proprietary information belonging to either the Client or its customers or the users of the systems. Consultant covenants that Consultant or subcontractors shall not sell or give away any such Client data or information derived therefrom.

With regard to Client's use of CustomerWise software for support, the Parties agree that the data Client enters into CustomerWise shall be transferred, moved, or stored in Canada. Client shall implement internal procedures to either require Client's staff to either redact customer's personal information or obtain the consent of the customer prior to entering customer's personal information into CustomerWise.

7.33 Consultant's Representations and Warranties

Consultant represents and warrants as follows:

- (a) Consultant is a foreign corporation with authority to transact business within the State of Missouri;
- (b) Consultant has the power and authority to enter into and perform this Agreement and is not prohibited from entering into this Agreement or discharging and performing all covenants and obligations on its part to be performed under and pursuant to this Agreement;
- (c) Consultant has taken all action required by law in order to approve, execute and deliver this Agreement;

- (d) The execution and delivery of this Agreement, the consummation of the transactions contemplated herein and the fulfillment of and compliance by Consultant with the provisions of this Agreement will not conflict with or constitute a breach of or a default under or require any consent, license or approval that has not been obtained pursuant to any of the terms, conditions or provisions of any law, rule or regulation, any order, judgment, writ, injunction, decree, determination, award or other instrument or legal requirement of any court or other agency of government, the documents of formation of Consultant or any contractual limitation, restriction or outstanding trust indenture, deed of trust, mortgage, loan agreement, lease, other evidence of indebtedness or any other agreement or instrument to which Consultant is a party or by which it or any of its property is bound and will not result in a breach of or a default under any of the foregoing;
- (e) The Consultant has taken all such action as may be necessary or advisable and proper to authorize this Agreement, the execution and delivery hereof, and the consummation of transactions contemplated hereby;
- (f) To the Consultant's knowledge, there are no actions, proceedings, judgments, rulings or orders issued by, or pending before any court or other governmental body that would materially adversely affect Consultant's ability to perform its obligations under this Agreement; and
- (g) This Agreement is a legal, valid and binding obligation of Consultant enforceable in accordance with its terms, except as limited by laws of general applicability limiting the enforcement of creditor's rights or by the exercise of judicial discretion in accordance with general principles of equity.

7.34 Data Exchanges or Interfaces

- (a) This Agreement is contingent upon the Client obtaining methods of exchanging data between Consultant and third party software vendors for each and every data exchange identified by the Parties in the Scope of Work and /or otherwise required by this Agreement.
- (b) Requirements.
 - 1. Consultant shall reasonably work with identified third party software vendors to develop, implement, and maintain the data exchanges or interfaces as identified in the Scope of Work.
 - 2. For each data exchange identified in the Scope of Work, Client shall include in its contract with the third party software vendors a provision

requiring the third party software vendor to work with Consultant and Client on developing, implementing, and maintaining each of the data exchanges identified in the Scope of Work.

- 3. Client shall also require in its contract with third party software vendors that the third party software vendor shall review and sign the specifications, the performance schedule and the test standards related to each applicable data exchange.
- 4. For each and every data exchange or interface identified within the Scope of Work, the Parties shall develop proposed specifications for each of the data exchange or interface (hereinafter "Data Exchange Specifications"). The Parties shall reduce the Data Exchange Specifications to writing which shall be signed and dated by all Parties.
- 5. For each data exchange, the Parties shall develop a schedule for production, testing, and installation (hereinafter "Data Exchange Schedule.") The Parties shall reduce the schedule(s) to writing which shall be signed and dated by all Parties.
- 6. For each such data exchange, the Parties shall agree in writing, signed and dated by both Parties, to the testing standards and requirements (hereinafter "Data Exchange Test Standards").
- 7. Client shall issue written notice to proceed with the development of each data exchange.
- (c) Changes to Data Exchange. In addition, the Parties agreeing to a data exchange may, by mutual agreement, impose additional requirements or amend the testing standards or the performance schedule. Should the Parties agree to change or amend any of the specifications, the performance schedule or the test standard, the changes shall be reduced to writing, signed, and dated by both Parties.
- (d) EACH DATA EXCHANGE, ON WHICH THE CLIENT HAS ISSUED A WRITTEN NOTICE TO PROCEED, SHALL BE DEVELOPED ACCORDING TO THE DATA EXCHANGE SPECIFICATIONS IN THE TIME PERIODS SET FORTH IN THE DATA EXCHANGE SCHEDULE. Upon completion of the development of the data exchange, Consultant shall notify Client that data exchange is complete and ready for testing. Client shall timely test the data exchange according to the Data Exchange Test Standards. If the data exchange passes the Client's testing according to the Data Exchange Test Standards, Client shall issue a written notice of acceptance of the data exchange.

7.35 <u>Costs Not To Exceed.</u>

Total payment for Scope of Work and all other expenses and costs to the Client under this Agreement and described herein shall not exceed nine hundred forty-one thousand eight hundred fifty dollars (\$941,850.00).

[SIGNATURES ON FOLLOWING PAGE]

IN WITNESS WHEREOF the parties hereto have duly executed this Software Implementation Services Agreement to be effective as of the date first written above.

CITY OF COLUMBIA, MISSOURI

		By:	Mike Matthes, City Manager
ATTE	EST:		
By:	Sheela Amin, City Clerk		
APPR	ROVED AS TO FORM:		
By:	Nancy Thompson, City Counselor	_	

N. HARRIS COMPUTER CORPORATION

By: Rob DiMurro

Title: President, Harris Utilities

ATTEST:

Name: Peter Fanous

Title: Executive Vice President, Advanced Utility Systems

Schedule "A" Scope of Work



CITY OF COLUMBIA Scope of Work

For the Implementation of CIS Infinity

As of 06/06/2014

Table of Contents

Introduction	
Background	4
Objectives	
Points of Contact	€
Primary Point of Contact (POC) - CITY	6
Other Contact(s)	6
Primary Point of Contact (POC) - Advanced	6
Other Contact(s)	
Project Scope	
Definitions	8
Task 1 – Project Management	
Subtask 1.1 – Project Planning	
Project Schedule	
Communication Plan	
Change Management Plan	
Test Plan	
Training Plan	
Risk Management Plan	10
Advanced and CITY Roles and Responsibilities	10
Issues Management (CustomerWise)	10
Change Order Process	10
On Site Project Facilities	10
Subtask 1.2 – Status Reports	11
Subtask 1.3 – Monthly Sponsor Review	11
Task 2 – CIS Infinity Interfaces and Software Modifications	13
Subtask 2.1 – Modified Interfaces	13
Subtask 2.1.1 – ESRI Geographic Information System (GIS)	13
Subtask 2.1.2 – MUNIS Master Customer Database	14
Subtask 2.1.3 – Tyler Incident Management Interface	
Subtask 2.1.4 – Outage Management System	14
Subtask 2.1.5 – Munis Work Management System	14
Subtask 2.1.6 – Tyler Cashiering	15
Subtask 2.2 – Configured Interfaces	16
Subtask 2.2.1 – Munis Financial Management System – General Ledger	16
Subtask 2.2.2 – Munis Financial Management System – Refunds	16
Subtask 2.2.3 – Meter Reading –Itron MVRS	16
Subtask 2.2.4 – Third Party Bill Print and Notices	17
Subtask 2.2.5 – TWI Interactive Voice Response system – Inbound and Outbound	17
Subtask 2.2.6 – ERP Document Management System	17
Subtask 2.2.7 – US Bank ACH payments	
Subtask 2.2.8 – Collection Agency	17
Subtask 2.2.9 – Boone County – Water District Interface	18
Subtask 2.2.11 – Boone County Electric Interface	18
Subtask 2.2.12 – Wasteworks Landfill Charges Import	
Subtask 2.3 – Software Modifications	
Subtask 2.3.1 – Winter Average Volume Calculation Enhancement	18
Subtask 2.3.2 –Contingency	19
Exclusions	
Task 3 - Implementation Approach	

Subtask 3.1 – Phase 1 – Project Initiation	20	
Subtask 3.2 – Phase 2 – Functional and Data Conversion Discovery Analysis	21	
Subtask 3.2.1 – Functional Discovery Analysis Workshops	22	
Subtask 3.2.2 - Data Conversion Analysis Workshop	23	
Subtask 3.3 – Phase 3 – Interface/Modification Discovery & Specification	23	
Subtask 3.4 – Phase 4 – Other Discoveries	25	
Subtask 3.4.1 – Reports Discovery	25	
Subtask 3.4.2 – Bill Print Discovery	25	
Subtask 3.5 – Phase 5 – Configuration and Conversion	25	
Subtask 3.5.1 – Initial Configuration and Conversion	25	
Subtask 3.5.2 – Subsequent Data Refreshes	26	
Subtask 3.6 – Phase 6 – Core Team Training	27	
Subtask 3.7 – Phase 7– Reports Development and Delivery	27	
Subtask 3.8 – Phase 8 – Interface/Modification Delivery	28	
Subtask 3.9 – Phase 9 – Software Testing	29	
Subtask 3.10 – Phase 10 – End User Training	31	
Subtask 3.11 – Phase 11 – Go/No Go Criteria	31	
Subtask 3.12 – Phase 12 – Transition to Live	32	
Subtask 3.13 – Phase 13 – Post Go Live	33	
I.0 Optional Items	34	
Subtask 4.1 – Infinity.Link Discovery & Configuration		
Schedule 1 – Fee Structure and Services Payment Milestones	35	
License Payment Milestones	36	
Service Payment Milestones	36	
Appendix A – Draft Project Schedule based on this Scope of Work		
ppendix B – Table of Responsibilities for Deliverables		
Appendix C – Sample Communication Plan	43	
Appendix D – Sample Change Order		

Introduction

The project is defined as the provision of the CIS Infinity comprehensive customer information and billing softwareby Harris' Advanced Utility Systems ("Advanced"), to the CITY OF COLUMBIA, MO ("CITY"), for its customer information system (CIS) replacement. The CITY, at its option, may choose to also implement Infinity.Link.

The project as outlined in this Scope of Work (SOW) encompasses all aspects of the CIS Infinity implementation, including but not limited to project management, data conversion, software control file configuration, interfaces, modifications and training.

CIS Infinity will replace the current Sungard/H.T.E utility billing system in use by the CITY. CIS Infinity will be installed and configured to meet the customer information and billing needs identified by the CITY.

Background

The CITY has made the decision to replace its legacy customer information system. The current utility billing system provided by SunGard/HTE will be replaced with a new CIS that is consistent with existing and planned customer service business processes and technology. The CITY currently manages customer account data through an application running on an IBM AS/400 iSeries platform.

The CITY bills approximately 60,000 customers monthly. Primary services include Water, Electric, Refuse, Storm Water, Sewer, Street Lights, and Dusk-To-Dawn Lights.

Objectives

The CITY will replace its existing system with a customer-centric CIS product software solution. The solution will be functionally rich in the following areas:

- · Account Management
- Billing Management
- Cashiering and Payments Management
- Credit and Collection Management
- Customer Management
- Customer Self Service
- Financial Management
- Meter Inventory
- Rates Management
- Service Order Management
- Usage Management

CIS Infinity is intended to address the following CITY objectives:

To provide exceptional levels of customer service. The need for CITY to satisfy
customers and provide exceptional levels of customer service is a primary objective and
critical need of the CITY.

- To provide for long-term stability of the customer information. CIS Infinity will be stable and reliable with a product roadmap that shows future support and enhancements. CIS Infinity will be supported by Advanced, easily configurable and upgradeable, meeting the CITY's business needs for the foreseeable future.
- To provide for integration across business systems. CIS Infinity will interface with other applications, current and future, through standard integration techniques.
- To provide for accommodating growth through technology. CIS Infinity will be based on current technology.
- To provide innovation and excellence. CIS Infinity will provide a foundation to meet intermediate and longer-term needs for innovation and excellence in serving the customer and providing cost-effective, environmentally sound service.

Points of Contact

Primary Point of Contact (POC) - CITY

Name: Ron Barrett

Title: Financial Project Manager Organization: CITY OF COLUMBIA

Address: 701 E. Broadway, Columbia, MO 65205

Phone: (573) 874-7371 Mobile: (573) 356-9447

Email: ron@gocolumbiamo.com
Website: http://www.gocolumbiamo.com/

Other Contact(s)

Name: Tony St Romaine Title: Executive Sponsor

Organization: CITY OF COLUMBIA

Address: 701 E. Broadway, Columbia, MO 65205

Phone: (573) 874-7721

Email: tony@gocolumbiamo.com

Name: Scott Eiler Title: Project Director Organization: Plante Moran

Address: 27400 Northwestern Highway, Southfield, MI 48037

Phone: (248) 223-3447

Email: scott.eiler@plantemoran.com

Primary Point of Contact (POC) - Advanced

Name: TBD*

Title: Project Manager

Organization: Advanced Utility Systems

Address: 2235 Sheppard Ave. East Suite 1400, Toronto, ON M2J 5B5

Phone: 416-496-0149 Ext TBD

Email: TBD*

*The anticipated start date for the CIS phase of the CITY's ERP project is April 2015. Advanced, in consultation with the CITY, will name a project manager approximately two (2) months prior to the CIS project start date.

Other Contact(s)

Name: Terry Ridyard Title: Executive Sponsor

Organization: Advanced Utility Systems

Address: 2235 Sheppard Ave. East Suite 1400, Toronto, ON M2J 5B5

Phone: 416-496-0149 Ext 256

Email: tridyard@advancedutility.com

Project Scope

The scope of this effort is to provide services to CITY to assist in the transformation of a new customer information system. In this regard, Advanced will provide the following services.

- Project Initiation and Management
- Installation of CIS Infinity, and optionally, Infinity.Link
- Discovery Analysis
- Configuration and Conversion
- Core Team Training
- Custom Reports Development and Delivery
- Interface and Modification Specification, Development and Delivery (exclusive of the non-CIS Infinity side of the interface)
- Software Testing
- End User Training
- Transition to Live
- Post Go Live Support

Definitions

Name	Definition
Modification	A change to the code base or a structural data model change.
	Changes to the software settings without source code or structural
Configuration	data model changes occurring.

Task 1 - Project Management

In consultation with the CITY, Advanced will assign a Project Manager (PM) for the management of this Scope of Work (SOW). A resume for the PM will be provided by Advanced. The CITY may request to interview the PM. The PM will meet with the CITY Project Manager to discuss the SOW and define the steps to be taken to perform the work. The CITY Project Manager will approve all deliverables and associated invoices for this task order, as well as providing oversight and guidance to ensure that completion of this task order meets the CITY's goals and budget.

Subtask 1.1 - Project Planning

Project Planning will consist of developing project control policies and procedures in accordance with standard industry practices for project administration, execution, and tracking. Advanced will coordinate a joint effort with the CITY to complete the Project Planning. Project Planning will include the following:

Project Schedule

Advanced will present a draft Project Schedule the week before the Project Kick-off for the CITY to review. A preliminary Project Schedule based on this Scope of Work is included in Appendix A. Following CITY approval, the Project Schedule will be used as a baseline for control of the project. Based on the CITY's approved changes, Advanced will be responsible for updates to the Project Schedule. The Project Schedule will be one project control mechanism used to manage, track, and evaluate Advanced's performance. Advanced will identify all tasks, deliverables, and appropriate milestones where the CITY information/activity is required and where timeline dependencies for subsequent Advanced activities within the Project Schedule exist.

Communication Plan

Advanced will coordinate a joint effort with the CITY to document the methods through which communication will take place during the CIS implementation project. There will be weekly and monthly review meetings, monthly reports, and monthly sponsor review meetings. An escalation process and several communication tools within these processes will be updated to ensure a clear understanding of the project standing relative to an on-time, on-budget delivery. The frequency of these meetings will be scheduled with the CITY and Advanced PM's during the kick off meeting. See Appendix C for a sample Project Communication Plan.

Change Management Plan

Advanced will coordinate a joint effort with the CITY to document the approach to effectively prepare the CITY for the changes to the organization resulting from the implementation of the software. The Change Management Plan will document the internal and external communication approaches to be used by the CITY to keep employees and customers informed of changes throughout the project.

Test Plan

Advanced will coordinate a joint effort with the CITY to document the overall testing approach for the four testing phases: Conversion, Functional, Integration, and User Acceptance testing. A Test Matrix will be used to document the test scripts for the Integration and User Acceptance test phases, logging the

responsibility for testing, timing and the test results. For both the Functional and Conversion test phases baseline accounts will be used to compare legacy data to CIS Infinity.

Training Plan

Advanced will coordinate a joint effort with the CITY to document how users will be trained on the software taking into consideration the software configuration completed as a result of the Functional Discovery Analysis. The Training Plan will include training matrices that outline what users (technical, core team, and end users) will learn in each class and will describe course material.

Risk Management Plan

Advanced will coordinate a joint effort with the CITY to document project risks. The Risk Management Plan provides a single, comprehensive process to identify, control and monitor risks and/or issues ensuring timely and effective resolution. This process helps reduce the time and effort required for risk/issue resolution. It outlines risk/issue ownership, decision-making authority and accountability. The risk management plan also improves communication of risks/issues and their resolution.

Advanced and CITY Roles and Responsibilities

Advanced will coordinate a joint effort with the CITY to identify Advanced and the CITY's human resource needs and how they will be used to accomplish tasks. A preliminary Table of Responsibilities that identifies deliverables for which Advanced has responsibility and for which the CITY has responsibility is included in Appendix B.

Issues Management (CustomerWise)

During Project Initiation as described in Task 3.1, Advanced will provide an overview of CustomerWise, Advanced's online tool for documenting and tracking issues as part of the overall implementation. Each Core Team member will be enrolled in mycisinfinity.com, Advanced's on-line customer portal which provides access to CustomerWise. Each identified user will be provided with a user name and password. Prior to Core Team Training, The CITY will be trained on the use of CustomerWise. Project issues identified by the CITY will be logged in CustomerWise. Advanced project team members will also use CustomerWise to log any issues that they identify. The Advanced Project Manager will assign ownership and priority for each issue and monitor the status of each issue through to resolution. Outstanding issues will be reviewed during the weekly and monthly project status meetings. The CITY is responsible for testing fixes reported in CustomerWise and for confirmation of issue closure.

Change Order Process

Advanced will coordinate a joint effort with the CITY to document a Change Order process. The Change Order process will identify how changes are initiated and their impact on the project will be identified, documented and communicated to the CITY. Appropriate sign-off channels will be developed for Change Order approval. A sample Change Order form is included in Appendix D.

On Site Project Facilities

The CITY will provide desk space for the Advanced team members while on-site at the CITY. The CITY will provide access to; printers within the facility, all network drives required for the shared project

resources, project servers, all instances of the software and full external internet access, (wireless preferred) for each Advanced team member including unimpeded access to Advanced's VPN. The CITY will make available meeting spaces as required for project meetings. Meeting spaces should be equipped with a white board and markers, flip chart, LCD projector, conference phone and internet connection.

Advanced will work within the CITY's access policy guidelines to access the CITY's core IT systems.

The CITY shall establish a training/testing room that will provide space, computers (with necessary software) and access to the software for the number of users specified in the contract plus one for Advanced The training room will be equipped with a white board and markers, flip chart, LCD projector, conference phone and internet connections.

Subtask 1.1 - Deliverables

Subtask 1.1 Deliverables	Draft Project Schedule	
	 Communication Plan 	
	 Change Order Process 	
	 Change Management Plan 	×
	Test Plan	
	Training Plan	
	 Risk Management Plan 	

Subtask 1.2 - Status Reports

Advanced will have weekly meetings with the CITY team to discuss work in progress, issues, actions, etc. Advanced will provide a weekly status report documenting these exchanges. Advanced will also provide a monthly summary of project progress, including significant issues resolved and significant issues raised.

Invoices will be issued as per the fee structure and service payment milestones in Schedule 1.

Subtask 1.2 - Deliverables

	Weekly Team Meeting
Subtask 1.2 Deliverables	Weekly Status Report
	Monthly Invoice
	 Monthly Project Progress Summary

Subtask 1.3 - Monthly Sponsor Review

Advanced will prepare a Monthly Sponsor Review to be attended by project management and project sponsor staff from both the CITY and Advanced. The Monthly sponsor review meeting will review progress to date, future actions, and will validate, on a monthly basis, that the go-live date is still achievable for both parties. The dates for these meeting will be determined by both CITY and Advanced PMs.

Subtask 1.3 - Deliverables

Subtask 1.3 Deliverables	Monthly Sponsor Review
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Task 2 – CIS Infinity Interfaces and Software Modifications

This task covers the development and configuration of CIS Infinity interfaces to existing CITY systems and modifications to CIS Infinity, and/or related products in the Infinity product suite, if any, to meet the CITY's CIS needs. All development work completed by Advanced will be communicated, in advance, to the CITY Project Manager so that the CITY Project Manager has visibility to all Advanced interface development work.

Advanced will document the status of development, whether conducted by the CITY or Advanced, in the weekly status reports.

Subtask 2.1 - Modified Interfaces

The following group of interfaces will require development efforts from Advanced, and potentially CITY staff or a third party vendor, to support the specific interface requirements. At a minimum, the CITY will provide third party vendor contact information to Advanced and assist Advanced with coordinating interface discussion with third party vendors. Advanced will analyze, specify, develop, Q/A, and deploy the following group of interfaces required by the CITY under this SOW. The specific system modifications required to support a specific interface will be determined during the Interface/Modification Discovery process. Advanced will create detailed combined **Functional/Technical Specifications** for each interface requiring development effort from Advanced's technical staff.

Subtask 2.1.1 – ESRI Geographic Information System (GIS)

The CITY requires a two-way interface between CIS Infinity and the CITY GIS system which utilizes ESRI ArcGIS products. This two-way interface will provide access to GIS information from CIS Infinity, and provide CIS Infinity data for presentation in the GIS system.

- i. Using dynamic hyperlink functionality users of CIS Infinity will be able to access GIS information related to a specific service address. Any data element (or combination of data elements), such as GPS coordinates or premise number on the Main Customer/Account Inquiry can be linked to the GIS application.
- ii. Using web services or SQL views, the CITY can retrieve data from CIS Infinity for presentation in the GIS application.
- iii. Using web services or interface tables, new service information from the GIS system will be updated in CIS Infinity in real time. This information includes parcel number, service address, property owner information and other key determinants received from the GIS system. Accounts will automatically be created in CIS Infinity.
- iv. Initiation for actions in CIS Infinity from GIS. Using Web services or interface tables, multiple accounts selected in the GIS system can have CIS actions generated for them, such as letters, tasks, service orders, outbound dialing.
- v. For addresses added within CIS Infinity, a real time verification of the service address against the GIS database will be performed using Web services or another method. A warning will be displayed to the CSR if the service address does not exist in the GIS database. The CSR can override the warning if allowed by system configuration. An exception report will be developed to review/correct these addresses.

The specific system modifications required to support the various components of the GIS interface will be determined during Interface Discovery - Subtask 3.3.

Subtask 2.1.2 – MUNIS Master Customer Database

The CITY requires a two-way interface between CIS Infinity and the MUNIS system to establish a master customer database that will update customer-related information in CIS Infinity from the MUNIS system. The specific touch points for this interface will be determined based on further discussion.

This interface is expected to be a post-CIS Infinity live deliverable.

Subtask 2.1.3 – Tyler Incident Management Interface

The CITY requires an two-way interface between CIS Infinity and the Tyler incident management system to generate service order requests in CIS Infinity. The interface will utilize the interface (UTL) table or web services API framework.

Specific integration points for the interface are as follows:

- Creation of a service order request in CIS Infinity. Based on the type of customer incident received in the Tyler incident management system, a service order of a specific type will be generated within CIS Infinity. This interface touch point will also support additional action items (e.g. task, note, letter) being optionally generated in addition to a service order.
- Return of applicable information about the service order, such as creation and/or completion details, from CIS Infinity to the Tyler incident management system.
- Depending on the type of service order generated, CIS Infinity may invoke the CIS
 Infinity/Munis work order management interface in order to generate work order in the Munis
 work order system.

Subtask 2.1.4 – Outage Management System

The CITY requires the ability to access customer, service address, service and customer status information within their Outage Management System (OMS) from the CIS Infinity database using real time, ODBC database views. Advanced will create views to present this information for use by the OMS.

Subtask 2.1.5 - Munis Work Management System

The CITY requires a two-way near real time interface between CIS Infinity and the Munis work order system. The interface will utilize the existing interface table framework with other work order management systems.

For designated service order types which originate in CIS Infinity, all applicable information (e.g. originator, date, and type of service order, completion options, scheduling and assignment, and other fields required to be shown on the work order) will be passed from CIS Infinity to Munis, where a service request or work order is generated. Upon completion of the service request or work order, information is then sent back to CIS Infinity from Munis including status, scheduling, assignment, completion information and any comments or notes to be added to the customer account. Meter installation and exchange information and updates to asset characteristics (e.g., changes to stop measurements or material type) will also be received from Munis and processed in CIS Infinity.

Similarly for work orders initiated in Munis that relate to work on a customer-related asset (service, meter, or AMI device) a CIS Infinity service order will be created. All applicable information (e.g. originator, date, and type of service order, completion options, scheduling and assignment, and other required fields) will be passed from Munis to CIS Infinity. Upon completion of the service request or work order, information is then sent back to CIS Infinity from Munis to update the CIS Infinity service order including status, scheduling, assignment, completion information and any comments or notes to be added to the customer account.

This interface can also be used when information in CIS Infinity has changed, such as customer and account information, etc. The changed record is sent to Munis upon saving the record within CIS Infinity.

Advanced will enhance the existing CIS Infinity functionality to support the specific requirements of the CITY. The specific system modifications required to support the Munis work order interface will be determined during the interface discovery process.

This interface is expected to be a post-CIS Infinity live deliverable.

Subtask 2.1.6 - Tyler Cashiering

The CITY requires a real-time interface between CIS Infinity and the Tyler cashiering module. The interface will provide for real-time inquiry of CIS Infinity account information using the CIS Infinity web services API. It will provide the ability to search by name, street address or account number. Once a valid CIS Infinity account is found, then the following information about that customer/account will be retrieved: current balance, total past due amount, cash only comments, links to payment agreements and collection status.

For payments entered into Tyler cashiering that pertain to utility billing, and which Tyler has authorized with the payment processor if applicable, the interface will provide for real time creation of pending payments in CIS Infinity via the CIS Infinity web services API. These pending payments can be adjusted or voided as a result of adjustments in Tyler based on a unique external reference ID. A schedulable process within CIS Infinity will create payment batches within CIS Infinity based on these payment records. CIS Infinity will not interface with the payment processor for payments received through the Tyler cashiering system/.

The specific system modifications required to support the Tyler cashiering interface will be determined during the interface discovery process, to take place early in the project.

Note: The CITY has identified the need for a future one-way interface between CIS Infinity and the Tyler EnerGov permitting system to exchange new premise, service and occupancy information. Due to timing of the Go Live dates for the respective applications, this interface is *NOT* included in this Scope of Work. It is anticipated that the interface will utilize either the interface (UTL) table or web services API framework.

Specific integration points for the interface are as follows:

- Creation of a new account and services in CIS Infinity. When a permit is issued, EnerGov will
 populate information about the new account, such as expected services, impervious square
 footage, heat source, load management devices, and other available information. Based on this
 information, CIS Infinity will create a new account record, with assigned services and default bill
 codes based on account type and services.
- Creation of an action (e.g. task, service order, note) in CIS Infinity. As part of the interface, EnerGov will indicate a specific action item to be generated. Based on this information, CIS Infinity will generate an action (e.g. a task) for follow-up within CIS.

Subtask 2.2 - Configured Interfaces

The following group of interfaces will be configured using CIS Infinity configuration. Information can be exported and imported on a scheduled basis using the Export/Import Processing Form.

Specifications will not be produced for configurable interfaces. These items are not considered core interfaces as they are configured rather than programmed into the system. Configurable interfaces are typically configured using the built-in Advanced Interface Manager configuration tool. Advanced will configure the following interfaces:

Subtask 2.2.1 - Munis Financial Management System - General Ledger

The CITY requires a one-way interface to export general ledger information from CIS Infinity to the Munis general ledger module.

The General Ledger interface will export in batch a text file containing summarized general ledger journal entries for updated billing, cash and cash adjustment batches from CIS Infinity to the General Ledger module. The Advanced Interface Manager will transfer summarized general ledger information to the General Ledger application as un-posted journal entries where they can then be processed. The general ledger information transferred contains details about the originating batch in CIS Infinity for cross-referencing purposes.

The CITY requires a one-way interface to retrieve information from CIS Infinity from the Munis general ledger module, specific to utility billing transactions originating in CIS Infinity. Using views or web services, a user of the Munis general ledger module will have the ability to see information relating to a general ledger transaction that originated from CIS Infinity, such as customer/account and transaction details.

Subtask 2.2.2 - Munis Financial Management System - Refunds

The CITY requires a one-way interface to export accounts payable information for customer refunds from CIS Infinity to the Munis accounts payable module.

The Accounts Payable interface will export a text file containing customer and refund amount information for the purposes of issuing refund checks to customers in the Accounts Payable module. Refund check transactions would be based on the existing refund transactions configured in CIS Infinity. This will be a periodic batch process.

Subtask 2.2.3 – Meter Reading – Itron MVRS

The CITY requires a two-way batch file interface between CIS Infinity and the CITY Itron MV-RS meter reading software.

The interface will export account and meter related information from CIS Infinity to Itron MV-RS. The interface will support the import of the meter data reads, meter notes, comments and trouble codes for billing purposes. Both the export and the import files will be configured using the standard Itron MV-RS formats.

Subtask 2.2.4 - Third Party Bill Print and Notices

The CITY requires an interface to export text files of information required by their third party bill print and notice provider (TBD) to generate customer bills and collection notices. An electronic file will be created to export in a standard format, from CIS Infinity, all billing information required by the third party vendor.

Subtask 2.2.5 - TWI Interactive Voice Response system - Inbound and Outbound

The CITY requires a two-way real-time interface between CIS Infinity TWI IVR for inbound customer calls and a batch interface to TWI for outbound customer calls.

CIS Infinity will provide customers with a real-time interface into the IVR, allowing customers to hear their utility account balance, check payment history, and make payments to their account, which are then reflected real-time in CIS Infinity. This will be done utilizing the Infinity. Teleconnect Web services API.

For outbound calls, CIS Infinity will be configured to support exporting a file containing customer call data for a specified group of customers that can be imported and processed by IVR. CIS Infinity currently contains functionality to export outbound customer call files using a configurable file format defined using the Advanced Interface Manager.

Subtask 2.2.6 - ERP Document Management System

The CITY requires an interface between CIS Infinity and a Document Management System (DMS). This interface will provide access to documents stored in the DMS from CIS Infinity.

Using dynamic hyperlink functionality, any data element (or combination of data elements), such as account number or parcel ID, on the Main Customer/Account Inquiry can be linked to the DMS application. Clicking on a linked data element will call a Web page created by the CITY displaying DMS information specific to the linked data element.

Subtask 2.2.7 - US Bank ACH payments

The CITY requires a one-way interface to export a file of customers signed up for ACH payments to US Bank. CIS Infinity currently supports the exporting of standard ACH files that conform to NACHA standards.

Subtask 2.2.8 - Collection Agency

The CITY requires a two-way batch file interface with a collection agency to export collection data from CIS Infinity and to import payment information from the collection agency into CIS Infinity.

The export file will contain account, balance and collection information for accounts that qualify to be sent to the agency. The import file will contain payments received by the collection agency with payment details such as account number, payment date and payment amount (net and gross).

CIS Infinity currently contains functionality to export information to a collection agency using a configurable file format defined using the Advanced Interface Manager. This information can be exported on a scheduled basis using a batch generated by the Collection Agency/Write-off Pickup Process.

CIS Infinity currently contains functionality to import payments received by a collection agency using a configurable file format defined using the Advanced Interface Manager.

Subtask 2.2.9 - Boone County - Water District Interface

The CITY requires a two-way batch file for export/import between Boone County Regional Water Districts 1, 4, and 9 and CIS Infinity to export customer account number, account name, address, sewer base charge, sewer volume charge, trash, storm water charges, late fees and interest while allowing for importing of customer account number, account name, address, water consumption, amount collected and billing period. This is to allow for billing of monthly non-meter related charges while collecting water consumption to calculate the annual winter quarter average sewer volume usage. The interface will export/import, on a monthly basis, consumption details for these cycle 99 (non-metered) accounts.

Subtask 2.2.10 – Boone County Sewer District - Export

The CITY requires a one-way batch file for export between Boone County Regional Sewer District and CIS Infinity to export customer account number, account name, address, meter number, water consumption and biling information.

Subtask 2.2.11 - Boone County Electric Interface

The CITY requires a two-way batch interface for export/import purposes between Boone Electric and CIS Infinity. The export interface will generate a file, for the designated customers, containing customer, account and information sufficient for customer billing purposes. The import interface will import an file containing payment information for payments received for customers billed by Boone Electric.

Subtask 2.2.12 - Wasteworks Landfill Charges Import

The CITY requires a one-way batch interface to import a file of landfill charges from the WasteWorks landfill biling system. This interface will import landfill charge information into CIS Infinity, so that the customers can be charged landfill charges based on waste disposition.

In the event that additional interfaces are identified during the Discovery process, the jointly developed Change Order process as defined in Subtask 1.1 will be followed.

Subtask 2.3 – Software Modifications

Advanced will analyze, specify, develop, Q/A, and deploy the following modifications required by CITY under this SOW. Advanced will identify the specific development efforts required to support these modifications during the Interface/Modification Discovery and Specification Phase. Advanced will create detailed combined **Functional/Technical Specifications** for each modification requiring development effort from Advanced's technical staff.

Subtask 2.3.1 – Winter Average Volume Calculation Enhancement

The CITY requires a modification to CIS Infinity to support the ability for the Winter Average Volume process to perform a secondary recalculation. CIS Infinity will be enhanced with the ability to optionally recalculate the winter average volume for an account, if the original calculation results in a value below the required threshold.

Subtask 2.3.2 - Contingency

Contingency hours (one hundred forty-five (145) hours have been reserved for additional requirements that may be identified during implementation.

In the event that additional modifications are identified during the Discovery process, the jointly developed Change Order process as defined in Subtask 1.1 will be followed.

Exclusions

The following has been excluded from this Scope of Work, unless noted otherwise:

1. Rate Structural Changes

Advanced will provide normal rate updates throughout the course of the implementation at no extra charge providing the rate change occurs during the implementation timeframe. Advanced will not support a rate change that departs substantially from the current rate structures that are in force at the time of contract signing and/or as documented in the Functional Discovery document. Any substantial change in rates methodology and deployment will be considered out of scope and will be subject to a Change Order.

2. Third Party Payment Processor

Internet payment processing and payment clearing is provided, at no extra license fee, for Infinity.Link and applicable CIS Infinity functionality via the Harris Payment Gateway (HPG). Currently the CITY requires an interface to TWI – Summation 360 who is an HPG partner. There is no cost to interface to TWI payment processor. An interface to a non HPG payment provider is considered customized development. The development of a real time third party interface for payment processing to a payment processor is a minimum thirty thousand dollar (\$30,000) development fee and an annual maintenance fee of twenty-five percent (25%). Based on the actual third party payment interface the fees may be higher.

Task 3 - Implementation Approach

This task covers the implementation approach Advanced will take to replace the CITY's current CIS with Advanced's CIS Infinitysoftware. Advanced will implement a phased approach in the lifecycle of this task order as described herein.

Subtask 3.1 - Phase 1 - Project Initiation

	Subtask 3.1	
Start	End	Duration
Week -	Week -	- weeks

The Advanced PM will work with the CITY Project Manager and staff to organize project information for the joint preparation of the Project Schedule (see Task1). The Advanced PM will be onsite to organize and present all of the information required to start the project and will, at a minimum, address the following areas:

- Project Schedule, including but not limited to the, Communication Plan, Risk Plan, Change Management Plan, Training Plan and Test Plan
- CIS Infinity server software installation and desktop installation rollout
- Training Course Syllabus for Core Team, Technical Team, and End User Training (part of the Training Plan)
- · CustomerWise set-up and overview
- Access to CIS Infinity Entity Relationship Diagram and Data Dictionary
- Project Team Contact List which includes users that need access to CustomerWise
- Overview of the operations of CIS Infinity via WebEx or similar media
- Functional and Data Conversion Discovery agendas delivery and review

The Advanced PM is the primary PM. The Advanced PM will operate the daily activities of the project and work in conjunction with the CITY's Project Manager and staff to ensure effective management of staff resourcing, forward planning initiatives and day to day project deliveries.

Subtask 3.1 - Deliverables

	Conduct Project Kickoff Meeting
	 Initial Project Schedule, including but not limited to the, Communication Plan, Risk Management Plan, Change Management Plan, Training Plan and Test Plan
Subtask 3.1 Deliverables	 Software Installation, Installation Training and Installation Report
	Training Course Syllabus
	CustomerWise Overview
	 Access to the Data Dictionary



- Access to the Entity Relationship Diagrams
- Project Team Contact List
- CIS Infinity System Overview
- Functional and Data Conversion Discovery agendas delivery and review

Subtask 3.2 - Phase 2 - Functional and Data Conversion Discovery Analysis

	Subtask 3.2	
Start	End	Duration
Week -	Week -	- weeks

Advanced will review the detailed data and business rules and requirements of the CITY. This analysis will provide an association between CITY's business practices and the required CIS Infinity configuration.

The Functional and Data Conversion Discovery Analysis phase will be led by Advanced and broken out into functional and data conversion workshops. The workshops review the functional and data conversion areas of the system and are the basis for how Advanced will configure, and convert all of the required business functions, business logic and data in the system. Prior to beginning both Functional and Data Discovery, Advanced will provide Overview training to the CITY's core team.

Prior to the start of the Functional and Data Conversion Discovery Analysis phase, the CITY will gather the following information in preparation for the sessions, if documentation is available:

- All rate tariffs and system generated fees, including periodic (monthly, quarterly etc.) non metered parking fees
- Chart of Accounts for GL/AP interfacing
- Meter Reading process flow, vendor and file layout
- All required service order information
- File layouts for all required interfaces
- Sample of current bill prints, notices, door hangers and letters
- All payment types received and any associated payment information
- Process flows of penalties, collections, disconnections, bankruptcy and write offs
- Process flows of move in, move out process
- Billing process flow
- All Daily, weekly, Month End and Year End Report Requirements
- All energy efficiency loan information
- Information and process flow for new construction
- Information and process flow for backflow device monitoring and billing
- All information on transformer-meter parent-child relationships and overload parameters
- All information on load management devices

Subtask 3.2.1 – Functional Discovery Analysis Workshops

Advanced will conduct onsite **Functional Discovery Analysis Workshops**. These workshops will be led by Advanced to appropriately review and confirm all required information for the areas listed below. Advanced with the CITY will identify the necessary CITY staff needed to attend these workshops two to four weeks in advance. Reports and Bill Print discoveries as outlined in Subtask 3.4 will be separate from the main functional discovery workshops and will be conducted at a time indicated in the Project Schedule.

Advanced will create a **Functional Discovery Document** that will include, at a minimum, the following areas:

1. Foundation

Review of all of the basic system set up areas and logical business rules including but not limited to account types, services, account number structure and customer number structure.

2. Customer Information

Review of addresses and phone numbers, lookups and address and occupancy types, multi-service customer consolidation, etc.

3. Meters and Meter Inventory

Review of meter types, meter inventory process and controls, manufacturers, units and other pertinent meter information.

4. Billing

Review of the entire meter reading to billing process with a review of all processing including weather based estimation logic and exceptions reporting.

5. Rates

Review of the rate tariff and functional requirements for setting up rates, seasonal rates, summer average calculations, temporary rates, proration, taxes and any rate rebates or discounts.

6. Cashiering

Review of all payment types, interfaces, automated clearing house, endorsements, receipts and unapplied payments processing.

7. Collections

Review of all collections procedures, payment arrangements, exemptions, penalties, notices, disconnections, agency, add to tax/liens, tax certification, bankruptcy and write-off processes including all applicable fees.

8. Move in Move Out

Review of the process flow and all applicable setups, fees and follow up processes with the move in move out process.

9. Customer Service

Review of functions within the software such as new service creation, donation plans, discounts and special service offerings/community service functions.

10. Accounting

Review of General Ledger Setup and chart of accounts for GL/AP processing and refund processing. Review of Year and month end closing including reporting requirements.

11. Service Orders

Review of requirements for full service order processing and follow up actions control.

12. Loans

Review of the process flow and all applicable setups and follow up processes for billing of energy efficiency loans.

13. New Construction

Review of new construction process to identify all interfaces, work-flow, payments and authorizations which impact utility billing.

14. Backflow

Review of the process flow and all applicable setups, fees and follow up processes with the backflow device tracking functionality.

15. Transformer Loading

Review of the process flow and all applicable setups and follow up processes with the transformer loading functionality.

Subtask 3.2.1 - Deliverables

Subtask 3.2.1	Functional Discovery Workshop
Deliverables	 Functional Discovery Document

Subtask 3.2.2 - Data Conversion Analysis Workshop

In addition to Functional Discovery Analysis Workshops, Advanced will conduct an onsite **Data**Conversion Discovery Analysis Workshop. From this workshop Advanced will produce a **Data**Conversion Plan. The data conversion analysis workshop will be led by Advanced to appropriately review and confirm all required information for these areas. Advanced will identify the CITY staff needed to attend these workshops two weeks in advance.

Advanced will work with the CITY to determine how to convert the existing legacy data into CIS Infinity. A full explanation of the process and definition of standard data validation parameters, as well as any site-specific data validation parameters will be reviewed and adopted. Data validation criteria and a data map are presented and reviewed jointly by Advanced and the CITY. The Data Conversion Plan will include the data mapping document and data validation parameters.

Subtask 3.2.2 - Deliverables

Subtask 3.2.2	 Data Conversion Workshop 	
Deliverables	Data Conversion Plan	

Subtask 3.3 – Phase 3 – Interface/Modification Discovery & Specification

	Subtask 3.3	
Start	End	Duration
Week -	Week -	- weeks

Advanced will conduct an onsite Interface/Modification Discovery Analysis Workshop. Advanced will provide a Discovery Agenda and identify necessary CITY staff needed to attend this workshop two weeks in advance. Advanced will review with the CITY all interfaces and modifications identified in Task 2, to be programmed in CIS Infinity. Advanced will review the specification process and map out the timeline required to complete the specifications, coding, Q/A, deployment, and testing. Below are the minimum topics that will be covered:

- Data source(s) identification; obtain data dictionaries, table relationships, etc.
- Method of moving the data between databases, including the format the data might be in, during the move (e.g., XML, ASCII, staging tables, DTS, etc.)
- · Direction of dataflow and frequency of data exchange
- Data validation efforts needed, if any
- Error handling
- · Document data mapping from one database to another
- Requirements analysis

Advanced will produce a Functional Specification Document and Technical Specification Document for review and acceptance by CITY.

Each specification will outline the following:

- Document Overview
- Revision History
- Functional/Technical (as appropriate) Summary
- Process Overview
- Functional/Technical (as appropriate) Modification
- Impact to System Operation
- Questions

Advanced will conduct a review of the documentation with the CITY remotely to make any changes to the specifications.

Subtask 3.3 - Deliverables

	 Interface and Modification Discovery Agenda
Subtask 3.3 Deliverables	 Interface/Modification Discovery Workshop
	 Functional Specification Document
	Technical Specification Document

Subtask 3.4 - Phase 4 - Other Discoveries

Subtask 3.4.1 - Reports Discovery

Advanced will conduct an onsite **Reports Discovery Workshop** to review the CITY's CIS Infinity reporting requirements. The discussion will include searches, querying, and a review of CIS Infinity's standard reports.

Advanced will outline all the required base reports including but not limited to auditor's, rates, revenue, and cash reports in a Reporting Matrix as identified in Subtask 3.7.

Any required report that does not have a standard report match is considered a custom report and the CITY will need to provide the logic to complete these reports. A custom report that has not been identified as part this SOW will be considered out of scope and will follow the Change Order process as identified in Subtask 1.1. This section covers only reports driven out of CIS Infinity and does not cover reports required from 3rd party vendors' software.

Subtask 3.4.1 - Deliverables

Subtask 3.4.1 Deliverables	Reports Discovery	
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Subtask 3.4.2 - Bill Print Discovery

Advanced will conduct a remote **Bill Print Discovery Workshop**. This workshop will be led by Advanced to review of all bill print types/notices/receipts and to provide input to assist the CITY with bill print redesign.

CITY outsources it bill print to a third party vendor. Advanced will replicate the third party vendor's layout for the bill print, so that CITY can re-print these documents in house if desired. Advanced will produce a **Bill Print Specification** for review and acceptance by CITY.

Subtask 3.4.2 - Deliverables

Subtask 3.4.2	Bill Print Discovery Workshop
Deliverables	Bill Print Specifications

Subtask 3.5 – Phase 5 – Configuration and Conversion

Subtask 3.5.1 – Initial Configuration and Conversion

Subtask 3.5.1		
Start	End	Duration
Week -	Week -	- weeks

The CITY will provide a data extract to Advanced that will be loaded into a development database located at Advanced's office. Advanced will convert the CITY's data so that it can be loaded into CIS Infinity. Configuration and conversion are tightly integrated in CIS Infinity. Advanced will create validated

mapping that ties existing customers' rates to their accounts. Advanced will develop a conversion routine to reflect the requirements of the CITY. The following data files will be converted:

- Customer masters & services associated with each customer
- Customer billing and adjustment history for current and 5 years of history
- Customer payment history for five (5) years
- Reading/consumption history for five (5) years
- Meter and backflow inventory
- Meter directions and read sequence information
- Deposit information
- Location information
- Credit history information
- Miscellaneous customer information
- · Customer payment plan information
- Customer letter codes and information

Advanced's Conversion Specialist will prepare the **Initial Data Conversion and Configuration** to be delivered and loaded onsite. The results for the **Data Validation** parameters specified in the Data Conversion Plan will be included for review by the CITY.

Advanced will assist the CITY in identifying **Baseline Accounts** which are a representative cross section of the CITY customers (e.g. rates, customer type, energy efficiency loans, backflow, transformer inventory with meter relationships, etc.). The baseline accounts will be used to test both the validity of the converted data and that the configuration begins to conform to the Functional Discovery document. The CITY will provide results from testing through the CustomerWise tool which tracks all anomalies.

Subtask 3.5.1 - Deliverables

	Initial Data Conversion Load
Subtask 3.5.1	 Identification of Baseline Accounts
Deliverables	 Data Validation Results
	 Initial Configuration Rollout

Subtask 3.5.2 – Subsequent Data Refreshes

Advanced will conduct a series of data refreshes (minimum of 6, including Go Live), until the data conversion and configuration are Go Live ready.

Subtask 3.5.2 - Deliverables

Subtask 3.5.2	 Data Refreshes 	
Deliverables	 Data Validations 	

Subtask 3.6 - Phase 6 - Core Team Training

	Subtask 3.6	
Start	End	Duration
Week -	Week -	-weeks

The CITY core functional and core technical teams will be trained by Advanced to use CIS Infinity prior to starting functional testing. CIS Infinity Core Team Training covers all of the major system components. CIS Infinity Core Team training covers all of the major system components. End User training will use the CITY's data and the CITY's system configuration. Advanced will ensure that the CITY's data and correct configuration is installed on the training database before end user training has begun. A full training syllabus is provided in the Training Plan.

Training will show all aspects of CIS Infinity functions to introduce the CITY to alternative methods to operate the CIS system and to document and change some of the system processes performed within the CITY's legacy system. Training will accommodate up to 10 participants CITY may choose to record the training sessions for internal use only.

During training sessions, the CITY will document any potentially new processes. Any system bugs, set up issues, conversion issues and deficiencies shall be entered in CustomerWise by the CITY. Advanced will assist the CITY with this process to ensure all items are documented through CustomerWise. Deficiencies can be entered into CustomerWise by the CITY's testers or Advanced's testers, any users who are given access to the system, and other personnel who may be involved during the Software Testing phases.

The Advanced PM will be proactive in the resolution of items logged in CustomerWise so as not to interrupt the continuity of testing. The Advanced PM will provide responses including analysis and level of effort to fix deficiencies. The Advanced PM or designee will document (in detail) any known work-around solutions and communicate these to the CITY's Project Manager.

Advanced is responsible for fully testing and correcting any deficiencies found during training. New builds that result from training deficiencies will be data validated by Advanced.

Subtask 3.6 - Deliverables

Subtask 3.6	 CustomerWise Training for software issue entry and tracking Standard Training Documentation
Deliverables	Completion of onsite Instructor-Led Core Team Training

Subtask 3.7 – Phase 7– Reports Development and Delivery

Subtask 3.7				
Start End Duration				
Week -	Week -	- weeks		

Reports identified as required by CITY in the Reports Discovery phase (Subtask 3.4.1) will be documented by Advanced using a **Reporting Matrix**. The Reporting Matrix will match the CIS Infinity

standard report names to each required report. Custom reports are also documented in the Reporting Matrix. Month-end and Year-end report requirements are included in this report matrix as well. A specification/mockup will be created for review and acceptance by CITY. Custom reports to be developed and delivered by Advanced, once sign off on specifications has taken place.

The following report enhancements were identified in the proposal and the cost was included in the modification section of the cost proposal:

Number	Application Requirements	Priority	Availability	Cost
365	Payment History, reporting bills and associated payments receipted by account. Shows dates, amounts, arrearages, penalties, account name, consumption, and address. Can be run for one account and allow user to view.	Н	R	\$2,250.00
366	Customer Statistics Report, presenting customer characteristics including number of customers, number of customers by meter size and billing category (customer type), usage and revenue by meter size, usage and revenue by billing type code, date range, district, book, and by a combination of the above.	н	R	\$4,500.00
376	Billing Statistics (Rate Codes, Consumption Amt, Dollar Amt, Consumption & Demand charges broken out)	Н	R	\$3,750.00
385	Surcharge billing & collection report	M	R	\$1,500.00
395	Ability to report on any residential customer who's summer usage is 80% of the 3 month average (for rate increase adjustments)	н	R	\$3,000.00

Subtask 3.7 - Deliverables

Subtask 3.6	Reporting Matrix
Deliverables	 Custom Reports Specification, Development & Delivery (if applicable)

Subtask 3.8 - Phase 8 - Interface/Modification Delivery

Subtask 3.8			
Start End Duration			
Week -	Week -	- weeks	

Once the interface/modification has been developed by Advanced and successfully compiled, the CITY will be notified that the interface/modification is ready to be released and applied to the CITY's test environment through an executable or build. Advanced will roll out the modifications into the CITY's test environment remotely. Advanced will ensure that all Advanced development work is put through our QA process.

Subtask 3.8 - Deliverables

Subtask 3.7	 Deployment and Rollout of Modifications and Interfaces over the
Deliverables	period of Integration Testing cycles.

Subtask 3.9 – Phase 9 – Software Testing

Subtask 3.9			
Start End Duration			
Week -	Week -	- weeks	

Advanced will support all software testing through a combination of onsite support, remote support and WebEx online support. Validated testing criteria will be used to determine if the testing phase is complete and the system is ready for the next cycle of testing. The Advanced PM will provide the CITY with generic test scripts. Modification of test scripts to match the CITY's specific business scenarios is the responsibility of the CITY. From the test scripts, the CITY will create an ITC Plan (Integration Testing Cycle), and User Acceptance Test (UAT) Plan.

At the start of each test cycle, a full data conversion using a fresh data extract will be performed to exercise the data conversion process and to update any required data fixes that are found through testing. With each data conversion Advanced will provide and the CITY will verify all balancing metrics that were agreed upon in the Data Conversion Discovery. Deficiencies found during the Software Testing Phase will be entered into CustomerWise for the correction of configuration, data conversion and/or system deficiencies. Deficiencies will be entered into CustomerWise by the CITY. CustomerWise maintains a history of analysis and problem resolution.

CustomerWise will be managed and maintained by the Advanced PM and will be reviewed in accordance with the Issue Management process with both Advanced and CITY staff to ensure the issues are being actively worked and tested. The Advanced PM will be proactive in the resolution of items logged in CustomerWise so that they will be resolved within a timely manner. The Advanced PM or designee will document (in detail) any known work around solutions and communicate it to the CITY Project Manager.

Advanced will provide a technical point of contact during all testing phases, Advanced will provide responses that include justification and mitigation plans where applicable.

The software testing phase is spilt into the following three test cycles:

1. Functional Testing

Functional testing will utilize the baseline accounts and testing scripts to confirm that the data conversion and basic functions in the system are working as expected. Individual accounts will be reviewed and will run through a full meter to cash process. In the review of these individual accounts, the CITY will be tasked with testing each rate element in the system and completing a rates testing matrix to confirm that the billing process works prior to starting a cycle billing process. This rate testing will be done against a series of baseline accounts and will look at each rate scenario and all of the associated proration activities that can affect a rate calculation.

Functional Testing is modular and does not test the system end-to-end.

Subtask 3.9.1 - Functional Testing Deliverables

SI	ubtask 3.9.1
U	eliverables

- Functional Test Data Conversion Load
- Generic Test Scripts
- Rates Testing Matrix

2. Integrated Testing Cycle (ITC)

ITC will utilize generic testing scripts and system scenarios to confirm that the data conversion and system processes are functioning as expected. ITC is broken down into two sub-phases.

- ITC1 is intended to exercise full scale testing of the system for meter reading, bill
 calculation, bill print, cash collections and collections processing. This will also involve
 testing the customer service functions within the system for items such as Move In and
 Move Out and service order processing.
- ITC2 emulates the same process with a refreshed data conversion set and any configuration changes that have been made to the system. Prior to the start of ITC2, another full rollout of data conversion and configuration review is performed onsite or remotely to ensure additional knowledge transfer to the CITY on how CIS Infinity is configured to meet CITY's business needs. Once the rollout is complete, testing of the system through ITC2 will commence to ensure that all system processes are performing as expected. Both ITC1 and ITC2 will have mutually agreed-upon performance and accuracy metrics and criteria to ensure the system is matching the expected results. These performance and accuracy metrics will be presented for approval to CITY Project Manager for adoption prior to starting User Acceptance Testing. ITC2 will incorporate testing of interfaces and modifications.

Subtask 3.9.2 – Integration Testing Deliverables

Subtask 3.9.2 Deliverables	Integration Test Scripts
	ITC1 Data Conversion Load
	ITC1 Test Plan Outline
	ITC1 Acceptance Criteria
	 ITC1 Plan Completion and Signoff
	ITC2 Data Conversion Load
	ITC2 Test Plan Outline
	ITC2 Acceptance Criteria
	 ITC2 Plan Completion and Signoff

3. User Acceptance Testing (UAT)

The final phase of testing is UAT and starts with a code freeze. Only critical path items will be altered during this phase as agreed upon by both parties after analyzing the risk of introducing these changes. Once complete, the UAT constitutes acceptance of the system as ready for Go

Live. In combination with staff training readiness and organization readiness, the UAT and its acceptance help to drive the Go/No Go criteria that lock down the live date of the software.

Advanced will coordinate with the CITY to select the integration test scripts that will be used during UAT.

Subtask 3.9.3 - User Acceptance Testing Deliverables

	UAT Data Conversion Load
Subtask 3.9.3 Deliverables	UAT Test Plan Outline
	UAT Acceptance Criteria
	 UAT Plan Completion and Sign Off

The Advanced PM will work with the CITY to ensure that test results for each testing phase provide evidence that CIS Infinity capabilities have been properly integrated and tested in the CITY's test environment. Advanced will work with the CITY to support performance tests.

Subtask 3.10 - Phase 10 - End User Training

Subtask 3.10		
Start	End	Duration
Week -	Week -	- weeks

Advanced will provide CIS Infinity End User training to the CITY to secure a working knowledge of CIS Infinity using acceptable adult learning principles. As part of the Training Plan, Advanced will work with the CITY to jointly create the appropriate Training Matrices (part of the Training Plan) that will identify classes and the Advanced and the CITY staff attendance needs.

Each End User training session will have an attendance sheet that matches the End User training schedule. Once each session is complete, the CITY will sign-off on a **Training Session Sign-off Form** signifying that the training session has been completed.

Subtask 3.10 - Deliverables

Subtask 3.10	 Completion of onsite Instructor Led End User Training
Deliverables	Training Session Sign-off

Subtask 3.11 - Phase 11 - Go/No Go Criteria

Subtask 3.11		
Start	End	Duration
Week -	Week -	- week

Advanced will initiate a process of gauging system readiness that will be measured using jointly-defined Go/No Go Criteria by Advanced and CITY to determine if CIS Infinity is prepared for use in a production environment. The criteria will be agreed to by the CITY Project Manager and documented by Advanced in the **Go/No Go Criteria List**.

The following will be part of the process:

- Review system readiness
- · Review staff readiness
- · Review organization readiness

Subtask 3.11 - Deliverables

Subtask 3.11 Deliverables	 Go/No Go Criteria List Review, Sign-off and Authorization

Subtask 3.12 - Phase 12 - Transition to Live

Subtask 3.12		
Start	End	Duration
Week -	Week -	- week

The Advanced PM will develop a **Cutover Plan** that details the steps and responsibilities for Advanced and the CITY to transition CIS Infinity to the CITY production (live) environment. The **Cutover Plan** will include but not be limited to the following items:

- Full emergency contact information
- Detailed steps and communications of when data extract is obtained and data conversion is returned
- Ordered steps for ensuring balancing of the system
- Determination of whether a test system is refreshed at the same time as production for any required process testing
- Post-cutover test plan and checklist
- Criteria that determine when the system will be turned over to end user staff
- A formal release that documents that the system has been handed to the CITY in full balance

The transition to live will have a new data conversion in which the data validation parameters, bill codes, rate mapping and transaction codes will all be approved by the CITY and the Advanced PM.

The cutover to live will occur over a weekend and will be coordinated by the Advanced PM and CITY staff.

Subtask 3.12 - Deliverables

	Cutover Plan
Subtask 3.12 Deliverables	Final Release Data Conversion Load
	AR Balancing Sign Off
	 Data Conversion Validation Parameters sign off
	 Year and month active confirmation
	 AR summary details Sign Off
	Transaction code Sign Off
	Rates Sign Off

Subtask 3.13 - Phase 13 - Post Go Live

Subtask 3.13		
Start	End	Duration
Week -	Week -	- week

Advanced will assist the CITY throughout the post live implementation phase to identify and respond to any needs and concerns. During the Post Go Live period, Advanced will supply, as per the Software Implementation Services Agreement, a combination of onsite, remote, and WebEx online support to ensure System Acceptance and a smooth transition to support. During this phase of the project, the following items will be supplied to the CITY:

- Weekly PM and technical staff meetings to review all high-priority items.
- Combination of onsite and remote customer support.
- Full transition to support Audit (internal to Advanced).
- Introduction and transition to Support.
- Completion of post live interfaces; 2.1.2 Munis Master Customer Database and 2.1.5 Munis Work Management System

Throughout the Post Go Live period, the Advanced PM will continue to act as primary resource for all issues. Upon completion of the Post live support period, the CITY will transition to the Advanced's Customer Service and Support Department as per the Support and Maintenance agreement.

Subtask 3.13 - Deliverables

	Completion of Post Go Live Support
Subtask 3.13 Deliverables	Transition to Support
	 Completion of Post Live Interfaces (2.1.2 and 2.1.5)

4.0 Optional Items

The following services are optional and have been identified separately in Schedule 1. If CITY elects to have Advanced perform one or more of these services, Advanced will initiate the Change Order Process.

Subtask 4.1 - Infinity.Link Discovery & Configuration

Advanced will conduct a remote **Infinity.Link Discovery Workshop**. This workshop will be led by Advanced and will review CITY's Infinity.Link customer web requirements including a detailed review of CITY's business rules and technical environment.

Prior to the start of the Infinity.Link technical workshop, CITY will complete the **Infinity.Link Checklist** provided by Advanced.

Advanced will create an Infinity.Link Discovery Document that will include the Technical Checklist.

Subtask 3.4.3 - Deliverables

Su	btask	3.4	.3
	livera		

- Infinity.Link Discovery Workshop
- Infinity.Link Technical Checklist
- Infinity.Link Discovery Document

Schedule 1 – Fee Structure and Services Payment Milestones

	Description	Quantity/ Hours	Cost
License Fees	CIS Infinity – Concurrent Users	25	\$187,500
	Infinity.Teleconnect – Site License	1	\$5,000
	Total License Fees		\$192,500
Services Fees	Project Management	700	\$105,000
	Discovery	500	\$75,000
	Data Conversion	600	\$90,000
	Configuration	1180	\$177,000
	Core & End User Training	800	\$120,000
	Interfaces	854	\$128,100
	Modifications (including Reports)	285	\$42,750
	Post Live Support	160	\$24,000
	Total Service Fees	5079	\$761,850
	Total License and Implementation Service Fees		\$954,350
Estimated Travel Related Expenses	Billed monthly as incurred.		\$180,000
	Total		\$1,134,350
Ontional Itams	T	,	440.655
Optional Items	Infinity.Link – Site License	1	\$40,000
	Infinity.Link - Configuration	150	\$22,500
	Total		\$62,500

License Payment Milestones

Reference	Milestone	Invoice Amount
LP1	25% on Contract Execution	\$48,125
LP2	75% on completion of installation of first data conversion of CIS Infinity by Consultant	\$144,375
	TOTAL	\$192,500

Service Payment Milestones

CITY will be billed monthly by Advanced for milestones completed during the month. Completion of milestone must be agreed upon by City prior to invoicing. The service fees milestones are as follows:

Reference	Milestone – CITY will be billed monthly for all milestones completed during the month (i.e. one invoice per month).	Invoice Amount
MP1	Project Management Month 1	\$ 13,500
MP2	Project Management Month 2	\$ 7,362
MP3	Project Management Month 3	\$ 7,362
MP4	Project Management Month 4	\$ 7,362
MP5	Project Management Month 5	\$ 7,362
MP6	Project Management Month 6	\$ 7,362
MP7	Project Management Month 7	\$ 7,362
MP8	Project Management Month 8	\$ 7,362
MP9	Project Management Month 9	\$ 7,362
MP10	Project Management Month 10	\$ 7,362
MP11	Project Management Month 11	\$ 7,362
MP12	Project Management Month 12	\$ 7,380
MP13	Installation of CIS Infinity Sign off	\$ 10,800
MP14	Delivery of Functional Discovery Workshops	\$ 45,000
MP15	Functional Discovery Document Signoff	\$ 22,500
MP16	Delivery of Data Conversion Workshop	\$ 13,500
MP17	Data Conversion Plan Sign off	\$ 9,000
MP18	Interface & Modification Workshop	\$ 13,500
MP19	Functional & Technical Specification Signoff - Modifications & Development Interfaces	\$ 22,500
MP20	Delivery of Reports Matrix	\$ 6,750
MP21	Initial Conversion Rollout	\$ 40,500
MP22	Initial Configuration Rollout	\$ 18,000
MP23	Completion of Core Team Training	\$ 27,000
MP24	Data Refresh # 2 Load (Functional Testing)	\$ 13,500
MP25	Functional Testing Sign off	\$ 36,000

MP26	Custom Reports Completion & Signoff	\$ 6,750
MP27	Data Refresh # 3 Load (ITC #1)	\$ 9,000
MP28	Integration Testing Cycle 1 Sign off	\$ 27,000
MP29	Deployment of Modifications	\$ 27,000
MP30	Deployment of Configuration Type Interfaces	\$ 22,500
MP31	Deployment of Development Type Interfaces	\$ 33,840
MP32	Data Refresh # 4 Load (ITC #2)	\$ 9,000
MP33	Integration Testing Cycle 2 Signoff	\$ 18,000
MP34	Data Refresh # 5 Load (UAT)	\$ 9,000
MP35	User Acceptance Testing Sign off	\$ 18,000
MP36	Completion of Week 2 End User Training	\$ 20,250
MP37	Completion of Week 4 End User Training	\$ 20,250
MP38	Completion of Week 6 End User Training	\$ 20,250
MP39	Completion of Week 9 End User Training	\$ 20,250
MP40	Go Live	\$ 9,000
MP41	Completion of Month 1 Post Live Support	\$ 21,600
MP42	Completion of Interface 2.1.2 - Munis Master Customer Database	\$ 8,775
MP43	Completion of Interface 2.1.5 - Munis Work Management System	\$ 12,150
MP44	Final System Acceptance	\$ 76,185
	Totals	\$ 761,850

Appendix A – Draft Project Schedule based on this Scope of Work





D	Task Name		Trips	Work	Duration	Start	Finish	Predecessor	Resource Names
1	City of Columbia		65	5,159 hr	rs 261.41 days	Mon 4/6/15	Mon 4/25/1	6	
2	Project Pre-Planning		0	147 hrs	11.77 days	Mon 4/6/15	Tue 4/21/15	i	
3	Confirm Hardware I	Delivery	0	0 hrs	1 day	Mon 4/6/15	Mon 4/6/15		
4	Develop Draft Proje	ct Schedule	0	95 hrs	10 days	Tue 4/7/15	Mon 4/20/1	5 3	Project Manager, Applie
5	Develop Draft Risk F	Plan	0	2 hrs	0.25 days	Tue 4/21/15	Tue 4/21/15	4	Project Manager
6	Develop Draft Com	munication Plan	0	2 hrs	0.25 days	Tue 4/21/15	Tue 4/21/15	5	Project Manager
7	Develop Draft Chan	ge Management Plan	0	2 hrs	0.25 days	Tue 4/21/15	Tue 4/21/15	6	Project Manager
8	Develop Initial Reso	urce Schedule	0	22 hrs	2.75 days	Thu 4/16/15	Mon 4/20/1	5 4FF	Project Manager
9	Internal Project Tea	m Kick-off	0	24 hrs	0.77 days	Tue 4/21/15	Tue 4/21/15	8	Application Consultant
10	Weekly City of Colum	bia Meeting	8	477 hrs	189.17 days	Mon 4/6/15	Thu 1/14/16	5	
11	Weekly Review of C	ustomerWise	8	227 hrs	189.17 days	Mon 4/6/15	Thu 1/14/16		PM[15%]
12	Monthly Project Up	date	0	80 hrs	10 days	Wed 12/30/1	Thu 1/14/16	11FF	PM
13	Monthly Resourcing	S	0	80 hrs	10 days	Wed 12/30/1	Thu 1/14/16	11FF	PM
14	Project overview		0	90 hrs	11.25 days	Thu 12/24/15	Thu 1/14/16	11FF	PM
15	Project Scheduling (O	n Site)	2	76 hrs	3.13 days	Mon 5/4/15	Thu 5/7/15	2FS+9 days	
16	Project Kick-off at C	ity of Columbia	0	0 hrs	0 days	Mon 5/4/15	Mon 5/4/15		
17	Develop Project Sch	edule	2	50 hrs	3.13 days	Mon 5/4/15	Thu 5/7/15	16	Project Manager, Appli
18	ADV - Deliver CIS Pr	oduct Overview (remote)	0	4 hrs	0.5 days	Wed 5/6/15	Thu 5/7/15	16SS+2 day	Trainer
19	Develop Draft Risk I	Plan	0	4 hrs	0.5 days	Thu 5/7/15	Thu 5/7/15	17FF	Project Manager
20	Develop Draft Com	munication Plan	0	4 hrs	0.5 days	Thu 5/7/15	Thu 5/7/15	17FF	Project Manager
21	Develop Draft Chan	ge Management Plan	0	4 hrs	0.5 days	Thu 5/7/15	Thu 5/7/15	17FF	Project Manager
22	Develop Initial Reso	urce Schedule	0	4 hrs	0.5 days	Thu 5/7/15	Thu 5/7/15	17FF	Project Manager
23	ADV - Deliver Traini	ng Workbooks	0	1 hr	0.13 days	Thu 5/7/15	Thu 5/7/15	17FF	Project Manager
24	ADV - Deliver Data	Validation Workbook	0	1 hr	0.13 days	Thu 5/7/15	Thu 5/7/15	17FF	Project Manager
25	ADV - Deliver and re	eview Training Matrix	0	2 hrs	0.25 days	Thu 5/7/15	Thu 5/7/15	17FF	Project Manager
26	Develop Draft Train	ing Schedule	0	2 hrs	0.25 days	Thu 5/7/15	Thu 5/7/15	25FF	Project Manager
		Task	-	E	xternal Milestone	Φ.	Ma	nual Summary	Rollup
Split		Split		11	nactive Task		Ma	nual Summary	-
Proje	ct: Pro Forma Project Plan	Milestone	•	Ir	nactive Milestone	•	Star	rt-only	С
Date: Mon 4/21/14		Summary	-	-	nactive Summary		₩ Fini	sh-only	3
		Project Summary	-		Manual Task	C		dline	4
		External Tasks	Service or an annual service o		Ouration-only	-	Pro	gress	
					Page 1				

)	Task Name	Trips	Work	Duration	Start	Finish	Predecessor	Resource Names
27	City of Columbia - Start documenting test cases for all testing	0	0 hrs	1 day	Wed 5/6/15	Thu 5/7/15	26FF	
28	Installation of CIS Infinity	0	32 hrs	8 days	Tue 5/5/15	Fri 5/15/15	2	
29	ADV - Install/Config Database Server	0	8 hrs	1 day	Tue 5/5/15	Wed 5/6/15	16SS+1 day	Installer DB
30	ADV - Install/Config Application Server	0	8 hrs	1 day	Wed 5/6/15	Thu 5/7/15	29	Installer APP
31	ADV - Install Desktop Application (1-2 machines)	0	8 hrs	1 day	Wed 5/6/15	Thu 5/7/15	30FF	Installer APP
32	ADV - Train City of Columbia IT on Installation of Desktops	0	8 hrs	1 day	Thu 5/7/15	Fri 5/8/15	31	Installer APP
33	City of Columbia - Sign-off on Installation	0	0 hrs	0 days	Fri 5/8/15	Fri 5/8/15	32	
34	City of Columbia - Complete Installation of Desktops	0	0 hrs	5 days	Fri 5/8/15	Fri 5/15/15	32	
35	Discovery	9	500 hrs	36.37 days	Fri 5/15/15	Tue 7/14/15	28	
36	ADV - Deliver Discovery Agenda	0	2 hrs	0.25 days	Fri 5/15/15	Tue 5/19/15	15FF	Application Consultan
37	Discovery Workshop Week 1 (Onsite)	3	120 hrs	3 days	Tue 6/9/15	Fri 6/12/15	104FS+5 da	
38	Foundation Workshop	3	24 hrs	1 day	Tue 6/9/15	Wed 6/10/15		Application Consultan
39	Customer Service Workshop	0	24 hrs	1 day	Wed 6/10/15	Thu 6/11/15	38	Application Consultan
40	Move In - Move Out Workshop	0	24 hrs	1 day	Thu 6/11/15	Fri 6/12/15	39	Application Consultan
41	Legacy Cashiering and Inquiry Workshop	0	24 hrs	1 day	Thu 6/11/15	Fri 6/12/15	40FF	Application Consultan
42	General review	0	24 hrs	1 day	Thu 6/11/15	Fri 6/12/15	41FF	Application Consultan
43	Discovery Workshop Week 2 (Onsite)	3	120 hrs	4 days	Mon 6/15/15	Fri 6/19/15	37FS+1 day	
44	Billing Process Workshop	3	24 hrs	1 day	Mon 6/15/15	Tue 6/16/15		Application Consultan
45	Rates Workshop	0	24 hrs	1 day	Tue 6/16/15	Wed 6/17/15	44	Application Consultan
46	Financial Mgmt Workshop	0	24 hrs	1 day	Wed 6/17/15	Thu 6/18/15	45	Application Consultan
47	Meters and Assets Workshop	0	24 hrs	1 day	Thu 6/18/15	Fri 6/19/15	46	Application Consultan
48	General review	0	24 hrs	1 day	Thu 6/18/15	Fri 6/19/15	47FF	Application Consultan

Inactive Task Manual Summary Split Milestone Inactive Milestone Start-only Project: Pro Forma Project Plan Date: Mon 4/21/14 Finish-only Inactive Summary Summary **Project Summary** Manual Task Deadline External Tasks **Duration-only** Progress

D	Task Name	Trips	Work	Duration	Start	Finish	Predecessor	Resource Names
49	Discovery Workshop Week 3 (Onsite)	3	120 hrs	4 days	Mon 6/29/15	Wed 7/8/15	43FS+6 day	
50	Service Orders Workshop	3	24 hrs	1 day	Mon 6/29/15	Tue 6/30/15		Application Consultant,
51	Collections Workshop	0	24 hrs	1 day	Tue 6/30/15	Thu 7/2/15	50	Application Consultant,
52	Reports, Notices and Letters Workshop	0	24 hrs	1 day	Tue 6/30/15	Thu 7/2/15	51FF	Application Consultant
53	General review	0	48 hrs	2 days	Thu 7/2/15	Wed 7/8/15	52	Application Consultant
54	Discovery Workshop finalization	0	138 hrs	36.37 days	Fri 5/15/15	Tue 7/14/15		
55	ADV - Update Discovery Document	0	86 hrs	6.45 days	Fri 5/15/15	Thu 5/28/15		Application Consultant
56	ADV - Delivery Discovery Document	0	36 hrs	4.5 days	Thu 5/28/15	Wed 6/3/15	55	Project Manager
57	City of Columbia - Review Discovery Document	0	0 hrs	5 days	Wed 6/3/15	Wed 6/10/15	56	
58	City of Columbia - Provide Comments	0	0 hrs	3.75 days	Wed 6/10/15	Tue 6/16/15	57	
59	ADV - Update Discovery Document	0	16 hrs	6.67 days	Tue 6/16/15	Thu 6/25/15	58	Application Consultant
60	City of Columbia - Sign-Off on Discovery Document	0	0 hrs	10 days	Thu 6/25/15	Tue 7/14/15	59	
61	Conversion (Data Discovery and Mapping Exercise)	1	128 hrs	57.38 days	Thu 5/7/15	Wed 8/5/15		
62	City of Columbia - Deliver initial Extract	0	0 hrs	5 days	Thu 5/7/15	Thu 5/14/15	17	
63	City of Columbia - Deliver Data Dictionary	0	0 hrs	5 days	Thu 5/7/15	Thu 5/14/15	62FF	
64	ADV - Legacy Data Assessment	0	8 hrs	5 days	Thu 5/14/15	Fri 5/22/15	63	Conversion[20%]
65	ADV - Setup Conversion Environment	0	8 hrs	10 days	Fri 5/22/15	Mon 6/8/15	64	Conversion[10%]
66	ADV - Develop MS Access DB for Data Mapping Exercise	0	4 hrs	1.67 days	Mon 6/8/15	Wed 6/10/15	65	Conversion[30%]
67	ADV - Data Mapping Exercise (Onsite) week 1	1	40 hrs	5 days	Wed 7/8/15	Wed 7/15/15	49	Conversion
68	ADV - Data Mapping Exercise (remote) week 2	0	40 hrs	5 days	Wed 7/15/15	Wed 7/22/15	67	Conversion
69	ADV - Data Mapping Exercise (remote)	0	16 hrs	2 days	Wed 7/22/15	Fri 7/24/15	68	Conversion
70	ADV - Legacy Data Clean-up List (if applicable)	0	4 hrs	0.5 days	Fri 7/24/15	Mon 7/27/15	69	Conversion

	Task		External Milestone	•	Manual Summary Rollu	р •
	Split		Inactive Task		Manual Summary	-
Project: Pro Forma Project Plan	Milestone	•	Inactive Milestone	\$	Start-only	С
Date: Mon 4/21/14	Summary	-	Inactive Summary	V	Finish-only	3
	Project Summary	~	Manual Task		Deadline	+
	External Tasks	100 mm and 100 mm	Duration-only	-	Progress	

)	Task Name		Work	Duration	Start	Finish	Predecessor	Resource Names
71	ADV - Develop Potential List of Baseline Accounts	0	4 hrs	0.5 days	Mon 7/27/15	Mon 7/27/15	70	Conversion
72	ADV - Update Data Mapping DB	0	4 hrs	0.5 days	Mon 7/27/15	Tue 7/28/15	71	Conversion
73	ADV - Deliver Data Mapping DB	0	0 hrs	0 days	Tue 7/28/15	Tue 7/28/15	72	
74	City of Columbia - Signoff on Data Mapping DB	0	0 hrs	5 days	Tue 7/28/15	Wed 8/5/15	73	
75	Initial Configuration	0	288 hrs	90.03 days	Tue 4/21/15	Wed 9/2/15		
76	ADV - Initial System Clean-up	0	24 hrs	1.5 days	Tue 4/21/15	Thu 4/23/15	9	Tech Lead, Application
77	ADV - Review SOW	0	24 hrs	2.5 days	Thu 4/23/15	Mon 4/27/15	76	Tech Lead, Application
78	ADV - Review Discovery Document	0	170 hrs	7.08 days	Thu 7/9/15	Mon 7/20/15	49FS+1 day	Application Consultant,
79	ADV - Review Discovery Document Final	0	36 hrs	6.67 days	Tue 6/30/15	Tue 7/14/15	54FF	Tech Lead[60%],Applica
80	ADV - Q/A Analysis of the In-house System	0	30 hrs	3.13 days	Wed 8/26/15	Mon 8/31/15	164	Tech Lead[60%],Applica
81	ADV - Rollout Configuration Onsite		4 hrs	2.5 days	Mon 8/31/15	Wed 9/2/15	80	Tech Lead[20%]
82	Modifications	3	165 hrs	129.36 days	Wed 7/22/15	Tue 2/2/16		
83	ADV - Initial Discussions (Onsite)	3	32 hrs	1.33 days	Wed 7/22/15	Fri 7/24/15	67FS+5 day	Development, Tech Lea
84	ADV - Development of Specifications	0	28 hrs	3.28 days	Fri 7/24/15	Wed 7/29/15	83	Development, Tech Lea
85	ADV - Deliver Specifications	0	1 hr	0.13 days	Wed 7/29/15	Wed 7/29/15	84	Project Manager
86	City of Columbia - Review Specifications	0	0 hrs	12.5 days	Wed 7/29/15	Tue 8/18/15	85	
87	ADV - Update Specifications	0	4 hrs	2.27 days	Tue 8/18/15	Thu 8/20/15	86	Development[20%],Tec
88	City of Columbia - Signoff on Specifications	0	0 hrs	2.5 days	Thu 8/20/15	Mon 8/24/15	87	
89	ADV - Develop Modifications	0	100 hrs	6.25 days	Tue 10/27/15	Thu 11/5/15	88,183FF	Development[200%]
90	City of Columbia - Test Modifications	0	0 hrs	80 days	Fri 10/2/15	Tue 2/2/16	261FF	
91	City of Columbia - Signoff on Modifications	0	0 hrs	0 days	Tue 2/2/16	Tue 2/2/16	90	
92	Interfaces		934 hrs	181 days	Mon 4/6/15	Thu 12/31/15	i	
93	ADV - Review of SOW		24 hrs	30 days	Mon 4/6/15	Fri 5/15/15		Tech Lead[10%]
94	ADV - Request necessary files/layout from City of Columbia	0	1 hr	1.25 days	Tue 5/19/15	Wed 5/20/15	93	Tech Lead[10%]

Split Inactive Task Manual Summary Е Milestone Inactive Milestone Start-only Project: Pro Forma Project Plan Date: Mon 4/21/14 Summary Inactive Summary Finish-only J **Project Summary** Manual Task Deadline External Tasks **Duration-only** Progress

Page 4

)	Task Name	Trips	Work	Duration	Start	Finish	Predecessor	Resource Names
95	City of Columbia - Deliver the Requested files/layouts to ADV	0	0 hrs	12.5 days	Wed 5/20/15	Mon 6/8/15	94	
96	ADV - Interface Discovery	0	80 hrs	5 days	Mon 6/8/15	Mon 6/15/15	95	Development, Tech Lea
97	ADV - Configure Interfaces	0	740 hrs	92.5 days	Mon 6/15/15	Fri 10/30/15	96	Tech Lead
98	City of Columbia - Test Interfaces	0	0 hrs	20 days	Fri 10/30/15	Wed 12/2/15	97	
99	ADV - Make adjustments to Interfaces	0	89 hrs	6.25 days	Wed 12/2/15	Thu 12/10/15	98	
100	City of Columbia - Re-Test Interfaces	0	0 hrs	12.5 days	Thu 12/10/15	Wed 12/30/15	99	
101	City of Columbia - Signoff on Interfaces	0	0 hrs	1 day	Thu 12/31/15	Thu 12/31/15	100	
102	Core Team Training	5	200 hrs	62.33 days	Tue 5/26/15	Thu 8/27/15		
103	Week 1	1	40 hrs	5 days	Tue 5/26/15	Tue 6/2/15	33FS+10 da	
104	ADV - Orientation & Overview and Daily Process	1	40 hrs	5 days	Tue 5/26/15	Tue 6/2/15		Trainer
105	Week 2	1	40 hrs	3.75 days	Mon 7/27/15	Thu 7/30/15	83FS+1 day	
106	ADV - Billing	1	30 hrs	3.75 days	Mon 7/27/15	Thu 7/30/15		Trainer
107	ADV - Cash	0	10 hrs	1.25 days	Wed 7/29/15	Thu 7/30/15	106FF	Trainer
108	Week 3	1	40 hrs	3.13 days	Tue 8/4/15	Fri 8/7/15	105FS+2 da	
109	ADV - Collections	1	20 hrs	2.5 days	Tue 8/4/15	Fri 8/7/15		Trainer
110	ADV - Designing SO	0	5 hrs	0.63 days	Fri 8/7/15	Fri 8/7/15	109	Trainer
111	ADV - Generating Service Orders	0	5 hrs	0.63 days	Fri 8/7/15	Fri 8/7/15	110FF	Trainer
112	ADV - Reports	0	10 hrs	1.25 days	Thu 8/6/15	Fri 8/7/15	111FF	Trainer
113	Week 4	1	40 hrs	2.63 days	Mon 8/17/15	Thu 8/20/15	108FS+6 da	
114	ADV - GL and Month/Year End	1	5 hrs	0.63 days	Mon 8/17/15	Tue 8/18/15		Trainer
115	ADV - Security	0	5 hrs	0.63 days	Mon 8/17/15	Tue 8/18/15	114FF	Trainer
116	ADV - Scheduler	0	5 hrs	0.63 days	Mon 8/17/15	Tue 8/18/15	115FF	Trainer
117	ADV - System Administration	0	15 hrs	1 day	Tue 8/18/15	Wed 8/19/15	116	Trainer
118	ADV - Rate Management	0	10 hrs	1 day	Wed 8/19/15	Thu 8/20/15	117	Trainer

Manual Summary Split Inactive Task Milestone Inactive Milestone 0 Start-only Project: Pro Forma Project Plan Date: Mon 4/21/14 Summary **Inactive Summary** Finish-only **Project Summary** Manual Task Deadline External Tasks **Duration-only Progress**

)	Task Name	Trips	Work	Duration	Start	Finish	Predecessor	Resource Names
119	Week 5	1	40 hrs	2.5 days	Mon 8/24/15	Thu 8/27/15	113FS+2 da	
120	ADV - Water Inventory	1	10 hrs	1.25 days	Mon 8/24/15	Tue 8/25/15		Trainer
121	ADV - Electric Inventory	0	10 hrs	1.25 days	Tue 8/25/15	Thu 8/27/15	120	Trainer
122	ADV - Instrument & Distribution Transformer	0	10 hrs	1.25 days	Tue 8/25/15	Thu 8/27/15	121FF	Trainer
123	ADV - Back Flow	0	10 hrs	1.25 days	Tue 8/25/15	Thu 8/27/15	122FF	Trainer
124	Reports, Notices, Receipts and Bill Print	2	250 hrs	152.64 days	Mon 4/6/15	Tue 11/17/15		
125	Reporting	2	120 hrs	41.52 days	Thu 8/27/15	Tue 10/27/15		
126	ADV - Review of current reporting obligations (Onsite)	2	32 hrs	4 days	Thu 8/27/15	Wed 9/2/15	52,119	Crystal Reports
127	ADV - Analyze City of Columbia Reports	0	12 hrs	1.5 days	Wed 9/2/15	Thu 9/3/15	126	Crystal Reports
128	ADV - Provide Mock-up of Custom Reports	0	16 hrs	2 days	Thu 9/3/15	Tue 9/8/15	127	Crystal Reports
129	City of Columbia - Signoff on Mock-ups	0	0 hrs	6.25 days	Tue 9/8/15	Wed 9/16/15	128	
130	ADV - Program Custom Reports	0	52 hrs	8.02 days	Wed 9/16/15	Mon 9/28/15	129	Crystal Reports[81%]
131	City of Columbia - Test Custom Reports	0	0 hrs	12.5 days	Mon 9/28/15	Fri 10/16/15	130	
132	ADV - Make any adjustments	0	8 hrs	1 day	Fri 10/16/15	Mon 10/19/15	131	Crystal Reports
133	City of Columbia - Re-test Custom Reports	0	0 hrs	6.25 days	Mon 10/19/19	Tue 10/27/15	132	
134	City of Columbia - Signoff on Custom Reports	0	0 hrs	0 days	Tue 10/27/15	Tue 10/27/15	133	
135	Bill Print Design	0	100 hrs	128.75 days	Thu 5/7/15	Tue 11/17/15		
136	ADV - Provide Sample Bills	0	1 hr	1.25 days	Thu 5/7/15	Mon 5/11/15	15	Project Manager[10%
137	City of Columbia - Provide Bill Print Mock-Up	0	0 hrs	90 days	Mon 5/11/15	Wed 9/23/15	136	
138	ADV - Review Bill Print Mock-up	0	20 hrs	2.5 days	Wed 9/23/15	Fri 9/25/15	137	Crystal Reports
139	ADV- Code and test Bill Print	0	60 hrs	15 days	Fri 9/25/15	Mon 10/19/15	138	Crystal Reports[50%]
140	ADV - Rollout Bill Print	0	1 hr	1.25 days	Mon 10/19/19	Tue 10/20/15	139	Crystal Reports[10%]
141	City of Columbia - Test Bill Print (1500+ Bills)	0	0 hrs	18.75 days	Tue 10/20/15	Tue 11/17/15	140,236SS	
142	ADV - Make any necessary code changes	0	18 hrs	67.5 days	Tue 8/11/15	Tue 11/17/15	141FF	Crystal Reports[3%]
143	City of Columbia - Signoff on Bill Print	0	0 hrs	0 days	Tue 11/17/15	Tue 11/17/15	142	

Manual Summary Split Inactive Task Milestone Inactive Milestone 0 Start-only Project: Pro Forma Project Plan Date: Mon 4/21/14 **Inactive Summary** Finish-only Summary **Project Summary** Manual Task Deadline External Tasks **Duration-only** Progress

0	Task Name	Trips	Work	Duration	Start	Finish	Predecessor	Resource Names
144	Notices	0	15 hrs	27.5 days	Mon 4/6/15	Wed 5/13/15		
145	City of Columbia - Design New Notices	0	0 hrs	12.5 days	Mon 4/6/15	Wed 4/22/15		
146	City of Columbia - Deliver Notices Design to ADV	0	0 hrs	0 days	Wed 4/22/15	Wed 4/22/15	145	
147	ADV - Program Notices	0	10 hrs	7.5 days	Wed 4/22/15	Fri 5/1/15	146	Crystal Reports[17%]
148	ADV - Rollout Notices Onsite	0	1 hr	1.25 days	Mon 5/4/15	Tue 5/5/15	147	Crystal Reports[10%]
149	City of Columbia - Test Notices	0	0 hrs	6.25 days	Tue 5/5/15	Wed 5/13/15	148	
150	ADV - Make any necessary code changes	0	4 hrs	12.5 days	Mon 4/27/15	Wed 5/13/15	149FF	Crystal Reports[4%]
151	City of Columbia - Signoff on Notices	0	0 hrs	0 days	Wed 5/13/15	Wed 5/13/15	150	
152	Receipts	0	15 hrs	6.25 days	Mon 4/6/15	Tue 4/14/15		
153	City of Columbia - Design New Receipts	0	0 hrs	1.25 days	Mon 4/6/15	Tue 4/7/15		
154	City of Columbia - Deliver Receipt Design to ADV	0	0 hrs	0 days	Tue 4/7/15	Tue 4/7/15	153	
155	ADV - Program Receipt	0	10 hrs	2.5 days	Tue 4/7/15	Thu 4/9/15	154	Crystal Reports[50%]
156	ADV - Rollout Receipt Onsite	0	1 hr	1.25 days	Thu 4/9/15	Fri 4/10/15	155	Crystal Reports[10%]
157	City of Columbia - Test Receipt	0	0 hrs	1.25 days	Mon 4/13/15	Tue 4/14/15	156	
158	ADV - Make any necessary code changes	0	4 hrs	5 days	Tue 4/7/15	Tue 4/14/15	157FF	Crystal Reports[10%]
159	City of Columbia - Signoff on Receipt	0	0 hrs	0 days	Tue 4/14/15	Tue 4/14/15	158	
160	Data Refreshes	1	472 hrs	179.91 days	Fri 7/24/15	Thu 4/14/16		
161	Data Refresh # 1 (Conversion)	0	122 hrs	28.21 days	Fri 7/24/15	Thu 9/3/15		
162	ADV - Programming of the Conversion	0	88 hrs	16.5 days	Fri 7/24/15	Wed 8/19/15	69	Conversion[67%]
163	ADV - Run Initial Conversion	0	12 hrs	2.4 days	Wed 8/19/15	Fri 8/21/15	162	Conversion[63%]
164	ADV - Load Converted Data to In-house Systems	0	4 hrs	2.5 days	Fri 8/21/15	Wed 8/26/15	163	Conversion[20%]
165	ADV - Run Data Integrity Report	0	4 hrs	1.67 days	Wed 8/26/15	Thu 8/27/15	164	Conversion[30%]
166	ADV - Q/A Analysis of Converted Data	0	10 hrs	1.39 days	Thu 8/27/15	Mon 8/31/15	165,119	Conversion[10%],Tech

Task External Milestone Manual Summary Rollup Split Inactive Task Manual Summary Milestone Inactive Milestone 0 Start-only Project: Pro Forma Project Plan Date: Mon 4/21/14 Inactive Summary Finish-only Summary **Project Summary** Manual Task Deadline External Tasks Duration-only Progress

D	Task Name	Trips	Work	Duration	Start	Finish	Predecessor	Resource Names
167	ADV - Upload Data to FTP site	0	1 hr	1.25 days	Mon 8/31/15	Tue 9/1/15	166	Conversion[10%]
168	ADV - Load Converted Data to Onsite Production System	0	2 hrs	2.5 days	Tue 9/1/15	Thu 9/3/15	167	Conversion[10%]
169	ADV - Load Converted Data to Onsite Test System	0	1 hr	1.25 days	Wed 9/2/15	Thu 9/3/15	168FF	Conversion[10%]
170	Data Refresh #2 (Functional Testing)	0	50 hrs	6.34 days	Wed 9/23/15	Thu 10/1/15	236	
171	City of Columbia - Deliver Data Extract	0	0 hrs	1 day	Wed 9/23/15	Thu 9/24/15		
172	City of Columbia - Deliver Data Validation Numbers	0	0 hrs	1 day	Wed 9/23/15	Thu 9/24/15	171FF	
173	ADV - Run Initial Conversion	0	12 hrs	1.8 days	Thu 9/24/15	Mon 9/28/15	172	Conversion[83%]
174	ADV - Load Converted Data to In-house Systems	0	1 hr	0.63 days	Mon 9/28/15	Mon 9/28/15	173	Conversion[20%]
175	ADV - Run Data Integrity Report	0	1 hr	0.63 days	Mon 9/28/15	Mon 9/28/15	174FF	Conversion[20%]
176	ADV - Q/A Analysis of Converted Data	0	12 hrs	1.67 days	Mon 9/28/15	Wed 9/30/15	175	Conversion[10%],Tech
177	ADV - Upload Data to FTP site	0	4 hrs	0.63 days	Tue 9/29/15	Wed 9/30/15	176FF	Conversion[80%]
178	ADV - Load Converted Data to Onsite Production System	0	4 hrs	0.63 days	Wed 9/30/15	Thu 10/1/15	177	Conversion[80%]
179	ADV - Load Converted Data to Onsite Test System	0	4 hrs	0.63 days	Wed 9/30/15	Thu 10/1/15	178FF	Conversion[80%]
180	ADV - Provide Data Validation Worksheet	0	4 hrs	0.63 days	Wed 9/30/15	Thu 10/1/15	178FF	Conversion[80%]
181	ADV - Reconcile any differences	0	4 hrs	0.63 days	Thu 10/1/15	Thu 10/1/15	180	Conversion[80%]
182	ADV - Make any necessary code changes	0	4 hrs	0.5 days	Thu 10/1/15	Thu 10/1/15	181FF	Conversion
183	Data Refresh #3 (Integration Testing Cycle 1)	0	75 hrs	10.72 days	Wed 10/21/1	Thu 11/5/15	243	
184	City of Columbia - Deliver Data Extract	0	0 hrs	1 day	Wed 10/21/15	Thu 10/22/15		
185	City of Columbia - Deliver Data Validation Numbers	0	0 hrs	1 day	Wed 10/21/15	Thu 10/22/15	184FF	

External Milestone Task Manual Summary Rollup Split Inactive Task Manual Summary Inactive Milestone 0 Start-only Milestone Project: Pro Forma Project Plan Date: Mon 4/21/14 **Inactive Summary** Finish-only Summary Manual Task Deadline **Project Summary** External Tasks **Duration-only Progress**

D	Task Name	Trips	Work	Duration	Start	Finish	Predecessor	Resource Names
186	ADV - Run Initial Conversion	0	37 hrs	5.55 days	Thu 10/22/15	Thu 10/29/15	185	Conversion[83%]
187	ADV - Load Converted Data to In-house Systems	0	1 hr	0.63 days	Thu 10/29/15	Fri 10/30/15	186	Conversion[20%]
188	ADV - Run Data Integrity Report	0	1 hr	0.63 days	Thu 10/29/15	Fri 10/30/15	187FF	Conversion[20%]
189	ADV - Q/A Analysis of Converted Data	0	12 hrs	1.67 days	Fri 10/30/15	Tue 11/3/15	188	Conversion[10%],Tech
190	ADV - Upload Data to FTP site	0	4 hrs	0.63 days	Tue 11/3/15	Tue 11/3/15	189	Conversion[80%]
191	ADV - Load Converted Data to Onsite Production System	0	4 hrs	0.63 days	Tue 11/3/15	Wed 11/4/15	190	Conversion[80%]
192	ADV - Load Converted Data to Onsite Test System	0	4 hrs	0.63 days	Tue 11/3/15	Wed 11/4/15	191FF	Conversion[80%]
193	ADV - Provide Data Validation Worksheet	0	4 hrs	0.63 days	Tue 11/3/15	Wed 11/4/15	191FF	Conversion[80%]
194	ADV - Reconcile any differences	0	4 hrs	0.63 days	Wed 11/4/15	Thu 11/5/15	193	Conversion[80%]
195	ADV - Make any necessary code changes	0	4 hrs	0.5 days	Wed 11/4/15	Thu 11/5/15	194FF	Conversion
196	Data Refresh #4 (Integration Testing Cycle 2)	0	75 hrs	10.09 days	Tue 12/22/15	Fri 1/8/16	251	
197	City of Columbia - Deliver Data Extract	0	0 hrs	1 day	Tue 12/22/15	Wed 12/23/15	5	
198	City of Columbia - Deliver Data Validation Numbers	0	0 hrs	1 day	Tue 12/22/15	Wed 12/23/15	197FF	
199	ADV - Run Initial Conversion	0	37 hrs	5.55 days	Wed 12/23/15	Mon 1/4/16	198	Conversion[83%]
200	ADV - Load Converted Data to In-house Systems	0	1 hr	0.63 days	Mon 1/4/16	Tue 1/5/16	199	Conversion[20%]
201	ADV - Run Data Integrity Report	0	1 hr	0.63 days	Mon 1/4/16	Tue 1/5/16	200FF	Conversion[20%]
202	ADV - Q/A Analysis of Converted Data	0	12 hrs	1.67 days	Tue 1/5/16	Wed 1/6/16	201	Conversion[10%],Tech
203	ADV - Upload Data to FTP site	0	4 hrs	0.63 days	Wed 1/6/16	Wed 1/6/16	202FF	Conversion[80%]
204	ADV - Load Converted Data to Onsite Production System	0	4 hrs	0.63 days	Wed 1/6/16	Thu 1/7/16	203	Conversion[80%]

	Task		External Milestone	4	Manual Summary Rollu	р
	Split		Inactive Task		Manual Summary	
Project: Pro Forma Project Plan	Milestone	•	Inactive Milestone	4	Start-only	С
Date: Mon 4/21/14	Summary	-	Inactive Summary	\forall	Finish-only	3
	Project Summary		Manual Task		Deadline	+
	External Tasks		Duration-only		Progress	-
	External Tasks		Duration-only		Progress	200.00

D	Task Name	Trips	Work	Duration	Start	Finish	Predecessor	Resource Names
205	ADV - Load Converted Data to Onsite Test System	0	4 hrs	0.63 days	Wed 1/6/16	Thu 1/7/16	204FF	Conversion[80%]
206	ADV - Provide Data Validation Worksheet	0	4 hrs	0.63 days	Wed 1/6/16	Thu 1/7/16	204FF	Conversion[80%]
207	ADV - Reconcile any differences	0	4 hrs	0.63 days	Thu 1/7/16	Fri 1/8/16	206	Conversion[80%]
208	ADV - Make any necessary code changes	0	4 hrs	0.5 days	Thu 1/7/16	Fri 1/8/16	207FF	Conversion
209	Data Refresh #5 (UAT)	0	75 hrs	10.09 days	Tue 2/2/16	Tue 2/16/16	261	
210	City of Columbia - Deliver Data Extract	0	0 hrs	1 day	Tue 2/2/16	Wed 2/3/16		
211	City of Columbia - Deliver Data Validation Numbers	0	0 hrs	1 day	Tue 2/2/16	Wed 2/3/16	210FF	
212	ADV - Run Initial Conversion	0	37 hrs	5.55 days	Wed 2/3/16	Wed 2/10/16	211	Conversion[83%]
213	ADV - Load Converted Data to In-house Systems	0	1 hr	0.63 days	Wed 2/10/16	Thu 2/11/16	212	Conversion[20%]
214	ADV - Run Data Integrity Report	0	1 hr	0.63 days	Wed 2/10/16	Thu 2/11/16	213FF	Conversion[20%]
215	ADV - Q/A Analysis of Converted Data	0	12 hrs	1.67 days	Thu 2/11/16	Fri 2/12/16	214	Conversion[10%],Tech
216	ADV - Upload Data to FTP site	0	4 hrs	0.63 days	Fri 2/12/16	Fri 2/12/16	215FF	Conversion[80%]
217	ADV - Load Converted Data to Onsite Production System	0	4 hrs	0.63 days	Fri 2/12/16	Mon 2/15/16	216	Conversion[80%]
218	ADV - Load Converted Data to Onsite Test System	0	4 hrs	0.63 days	Fri 2/12/16	Mon 2/15/16	217FF	Conversion[80%]
219	ADV - Provide Data Validation Worksheet	0	4 hrs	0.63 days	Fri 2/12/16	Mon 2/15/16	217FF	Conversion[80%]
220	ADV - Reconcile any differences	0	4 hrs	0.63 days	Mon 2/15/16	Tue 2/16/16	219	Conversion[80%]
221	ADV - Make any necessary code changes	0	4 hrs	0.5 days	Mon 2/15/16	Tue 2/16/16	220FF	Conversion
222	Data Refresh #6 (Go Live)	1	75 hrs	9.47 days	Fri 4/1/16	Thu 4/14/16	295FS+5 da	
223	City of Columbia - Deliver Data Extract	0	0 hrs	1 day	Fri 4/1/16	Mon 4/4/16		
224	City of Columbia - Deliver Data Validation Numbers	0	0 hrs	1 day	Fri 4/1/16	Mon 4/4/16	223FF	

Task External Milestone Manual Summary Rollup Split Inactive Task Manual Summary Milestone Inactive Milestone 0 Start-only Project: Pro Forma Project Plan Date: Mon 4/21/14 Inactive Summary Finish-only Summary **Project Summary** Manual Task Deadline External Tasks **Duration-only** Progress

)	Task Name	Trips	Work	Duration	Start	Finish	Predecessor	Resource Names
225	ADV - Run Initial Conversion	1	37 hrs	5.55 days	Mon 4/4/16	Mon 4/11/16	224	Conversion[83%]
226	ADV - Load Converted Data to In-house Systems	0	1 hr	0.63 days	Mon 4/11/16	Tue 4/12/16	225	Conversion[20%]
227	ADV - Run Data Integrity Report	0	1 hr	0.63 days	Mon 4/11/16	Tue 4/12/16	226FF	Conversion[20%]
228	ADV - Q/A Analysis of Converted Data	0	12 hrs	1.67 days	Tue 4/12/16	Thu 4/14/16	227	Conversion[10%],Tech
229	ADV - Upload Data to FTP site	0	4 hrs	0.63 days	Wed 4/13/16	Thu 4/14/16	228FF	Conversion[80%]
230	ADV - Load Converted Data to Onsite Production System	0	4 hrs	0.63 days	Thu 4/14/16	Thu 4/14/16	229	Conversion[80%]
231	ADV - Load Converted Data to Onsite Test System	0	4 hrs	0.63 days	Thu 4/14/16	Thu 4/14/16	230FF	Conversion[80%]
232	ADV - Provide Data Validation Worksheet	0	4 hrs	0.63 days	Thu 4/14/16	Thu 4/14/16	230FF	Conversion[80%]
233	ADV - Reconcile any differences	0	4 hrs	0.63 days	Thu 4/14/16	Thu 4/14/16	232FF	Conversion[80%]
234	ADV - Make any necessary code changes	0	4 hrs	0.5 days	Thu 4/14/16	Thu 4/14/16	233FF	Conversion
235	Testing Phases	13	526 hrs	127.24 days	Thu 9/3/15	Fri 3/11/16	75,161	
236	Conversion Testing	3	80 hrs	12.5 days	Thu 9/3/15	Wed 9/23/15		
237	ADV - Provide Testing Worksheets	0	2 hrs	2.5 days	Thu 9/3/15	Wed 9/9/15		Project Manager[10%]
238	ADV - Walk Through Testing worksheets	3	60 hrs	2.5 days	Thu 9/3/15	Wed 9/9/15		Conversion, Project Ma
239	City of Columbia - Conduct Testing	0	0 hrs	10 days	Wed 9/9/15	Wed 9/23/15	237	
240	City of Columbia - Report any issues into CustomerWise	0	0 hrs	10 days	Wed 9/9/15	Wed 9/23/15	239FF	
241	ADV - Make any necessary Conversion changes	0	18 hrs	2.25 days	Wed 9/9/15	Fri 9/11/15	239SS	Conversion
242	City of Columbia - Re-test CustomerWise Items	0	0 hrs	8 days	Thu 9/3/15	Wed 9/16/15	241FF	
243	Functional Testing	2	102 hrs	12.5 days	Thu 10/1/15	Wed 10/21/1	182	
244	ADV - Provide Testing Worksheets	0	2 hrs	2.5 days	Thu 10/1/15	Tue 10/6/15		Project Manager[10%]

	Task		External Milestone		Manual Summary Rollu	
	Split		Inactive Task		Manual Summary	•
Project: Pro Forma Project Plan	Milestone	•	Inactive Milestone	4	Start-only	С
Date: Mon 4/21/14	Summary	-	Inactive Summary	\forall	Finish-only	3
	Project Summary	V	Manual Task		Deadline	4
	External Tasks		Duration-only	Manager and Assessment	Progress	
			Page 11			

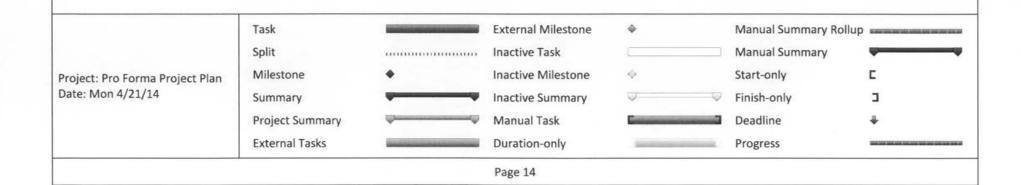
D	Task Name	Trips	Work	Duration	Start	Finish	Predecessor	Resource Names
245	ADV - OTJL	2	60 hrs	3.75 days	Tue 10/6/15	Tue 10/13/15	244	Project Manager,Tech
246	City of Columbia - Conduct Testing	0	0 hrs	10 days	Tue 10/6/15	Wed 10/21/15	244	
247	City of Columbia - Report any issues into CustomerWise	0	0 hrs	10 days	Tue 10/6/15	Wed 10/21/15	246FF	
248	ADV - Make any necessary configuration changes	0	20 hrs	3.33 days	Thu 10/15/15	Wed 10/21/15	246FF	Tech Lead[75%]
249	ADV - OTJL	0	20 hrs	1.25 days	Tue 10/6/15	Wed 10/7/15	247SS	Project Manager, Tech
250	City of Columbia - Re-test CustomerWise Items	0	0 hrs	5 days	Wed 10/14/15	Wed 10/21/15	248FF	
251	Integration Testing Cycle 1	2	130 hrs	30 days	Thu 11/5/15	Tue 12/22/15	195	
252	Develop Stress Test Plan	0	5 hrs	0.31 days	Thu 11/5/15	Thu 11/5/15		Project Manager,Tech
253	Develop Integration Test Plan	0	5 hrs	1.25 days	Thu 11/5/15	Fri 11/6/15		Project Manager[50%]
254	City of Columbia - Develop Integration Test Scripts	0	0 hrs	5 days	Thu 11/5/15	Fri 11/13/15		
255	ADV - OTJL	2	70 hrs	4.38 days	Fri 11/13/15	Thu 11/19/15	254	Project Manager,Tech
256	City of Columbia - Conduct Testing	0	0 hrs	25 days	Fri 11/13/15	Tue 12/22/15	254,89	
257	City of Columbia - Report any issues into CustomerWise	0	0 hrs	25 days	Fri 11/13/15	Tue 12/22/15	256FF	
258	ADV - Make any necessary configuration changes	0	30 hrs	3.75 days	Fri 11/13/15	Wed 11/18/15	257SS	Tech Lead
259	ADV - OTJL	0	20 hrs	1.25 days	Fri 11/13/15	Mon 11/16/15	256SS	Tech Lead, Project Man
260	City of Columbia - Re-test CustomerWise Items	0	0 hrs	7 days	Fri 11/6/15	Wed 11/18/15	258FF	
261	Integration Testing Cycle 2	2	114 hrs	17 days	Fri 1/8/16	Tue 2/2/16	208	
262	City of Columbia - Develop Integration Test Scripts	0	0 hrs	2 days	Fri 1/8/16	Tue 1/12/16		

	Task	Street, or other Desired	External Milestone	4	Manual Summary Rol	lup
	Split		Inactive Task		Manual Summary	-
Project: Pro Forma Project Plan	Milestone	•	Inactive Milestone	4	Start-only	С
Date: Mon 4/21/14	Summary	-	Inactive Summary	\forall	Finish-only	3
	Project Summary	-	Manual Task		Deadline	+
	External Tasks		Duration-only	Anna Inc. Commission	Progress	-
			Page 12			

D	Task Name	Trips	Work	Duration	Start	Finish	Predecessor	Resource Names
263	ADV - OTJL	2	60 hrs	3.75 days	Fri 1/8/16	Wed 1/13/16		Tech Lead, Project Man
264	City of Columbia - Conduct Testing	0	0 hrs	15 days	Tue 1/12/16	Tue 2/2/16	262	
265	City of Columbia - Report any issues into CustomerWise	0	0 hrs	15 days	Tue 1/12/16	Tue 2/2/16	264FF	
266	ADV - Make any necessary configuration changes	0	24 hrs	3 days	Tue 1/12/16	Fri 1/15/16	265SS	Tech Lead
267	ADV - OTJL	0	30 hrs	1.88 days	Tue 1/12/16	Wed 1/13/16	264SS	Tech Lead, Project Man
268	City of Columbia - Re-test CustomerWise Items	0	0 hrs	6.25 days	Fri 1/8/16	Mon 1/18/16	266FF	
269	User Acceptance Testing	4	100 hrs	18 days	Tue 2/16/16	Fri 3/11/16	221	
270	City of Columbia - Develop Integration Test Scripts	0	0 hrs	3 days	Tue 2/16/16	Fri 2/19/16		
271	City of Columbia - Conduct Testing	0	0 hrs	15 days	Fri 2/19/16	Fri 3/11/16	270	
272	ADV - OTJL	3	80 hrs	6 days	Fri 2/19/16	Mon 2/29/16	271SS	Tech Lead, Trainer, Proje
273	City of Columbia - Report any issues into CustomerWise	0	0 hrs	15 days	Fri 2/19/16	Fri 3/11/16	271FF	
274	ADV - Make any necessary configuration changes	1	20 hrs	2.5 days	Tue 3/8/16	Fri 3/11/16	271FF	Tech Lead
275	City of Columbia - Re-test CustomerWise Items	0	0 hrs	15 days	Fri 2/19/16	Fri 3/11/16	274FF	
276	End User Training	9	360 hrs	51 days	Thu 10/1/15	Thu 12/17/15	i	
277	City of Columbia - Finalize End User Training Plan	0	0 hrs	5 days	Thu 10/1/15	Thu 10/8/15	243SS	
278	ADV - End User Week 1	1	40 hrs	5 days	Thu 10/8/15	Fri 10/16/15	277	Trainer
279	ADV - End User Week 2	1	40 hrs	5 days	Fri 10/16/15	Fri 10/23/15	278	Trainer
280	ADV - End User Week 3	1	40 hrs	5 days	Fri 10/23/15	Fri 10/30/15	279	Trainer

	Task		External Milestone	4	Manual Summary Rollup	
	Split		Inactive Task	10	Manual Summary	
Project: Pro Forma Project Plan	Milestone	•	Inactive Milestone	.	Start-only	С
Date: Mon 4/21/14	Summary	-	Inactive Summary	\forall	Finish-only	3
	Project Summary	~	Manual Task	Constant of the	Deadline	#
	External Tasks		Duration-only	-	Progress	
			Page 13			

D	Task Name	Trips	Work	Duration	Start	Finish	Predecessor	Resource Names
281	ADV - End User Week 4	1	40 hrs	6 days	Fri 10/30/15	Mon 11/9/15	280	Trainer
282	ADV - End User Week 5	1	40 hrs	5 days	Mon 11/9/15	Tue 11/17/15	281	Trainer
283	ADV - End User Week 6	1	40 hrs	5 days	Tue 11/17/15	Tue 11/24/15	282	Trainer
284	ADV - End User Week 7	1	40 hrs	5 days	Tue 11/24/15	Thu 12/3/15	283	Trainer
285	ADV - End User Week 8	1	40 hrs	5 days	Thu 12/3/15	Thu 12/10/15	284	Trainer
286	ADV - End User Week 9	1	40 hrs	5 days	Thu 12/10/15	Thu 12/17/15	285	Trainer
287	On the Job Learning Training	6	240 hrs	30 days	Thu 11/5/15	Tue 12/22/15	251SS	
288	OTJL Training	6	240 hrs	30 days	Thu 11/5/15	Tue 12/22/15		Trainer
289	Go Live	4	204 hrs	19.88 days	Fri 3/11/16	Fri 4/8/16	235	
290	ADV - Finalize Go/No Go Criteria	0	8 hrs	10 days	Fri 3/11/16	Fri 3/25/16		Project Manager[10%]
291	ADV - Finalize Organization Readiness Checklist	0	8 hrs	10 days	Fri 3/11/16	Fri 3/25/16	290FF	Project Manager[10%]
292	ADV - Finalize Post Go Live Plan	0	8 hrs	10 days	Fri 3/11/16	Fri 3/25/16	290FF	Project Manager[10%]
293	ADV - Finalize Transition Plan to Support	0	8 hrs	10 days	Fri 3/11/16	Fri 3/25/16	290FF	Project Manager[10%]
294	ADV - Finalize Cutover Plan	0	8 hrs	10 days	Fri 3/11/16	Fri 3/25/16	290FF	Project Manager[10%]
295	City of Columbia - Go / No Go Decision	0	0 hrs	10 days	Fri 3/11/16	Fri 3/25/16	290FF	
296	ADV - Finalize Go Live Plan	0	8 hrs	10 days	Fri 3/11/16	Fri 3/25/16	290FF	Project Manager[10%]
297	Go Live	4	156 hrs	4.88 days	Fri 4/1/16	Fri 4/8/16	222SS	Application Consultant,
298	Post Live Support	2	160 hrs	11.33 days	Fri 4/8/16	Mon 4/25/16	297	
299	Week 1	1	40 hrs	2.5 days	Fri 4/8/16	Tue 4/12/16		Tech Lead, Project Man
300	Week 2	1	40 hrs	2.5 days	Tue 4/12/16	Fri 4/15/16	299	Tech Lead, Project Man
301	Week 3	0	40 hrs	3.2 days	Fri 4/15/16	Wed 4/20/16	300	Tech Lead, Project Man
302	Week 4	0	40 hrs	3.13 days	Wed 4/20/16	Mon 4/25/16	301	Tech Lead, Project Man



Appendix B – Table of Responsibilities for Deliverables

Del #	Task Per SOW	Subtask Per SOW	Name	Deliverable Description/Definition	Deliverable Owner
1	1	1.1	Initial Draft Project Schedule	Draft Project Schedule to be delivered by Advanced.	Advanced
2	1	1.1	Updated Project Schedule	Project Schedule updates are performed throughout the project. The schedule is updated for refinements to tasks, and percent complete inclusive of resource updates and timeframe updates. Both parties will commit to staffing and resources to meet a rolling 3-month window.	Advanced
3	1	1.2	Invoice Review & Approval	Review and approval of invoices for payment on a timely basis.	CITY
4	1	1.1	Risk Management Plan	Jointly developed plan that defines how project risks will be logged, prioritized, assigned and managed to closure using a jointly agreed resolution strategy. Risk Log will be reviewed at project status meetings.	Advanced
5	1	1.1	Communication Plan	Jointly developed plan that defines the Project Strategy for communicating internally within the Project Team.	Advanced
6	1	1.1	Change Management Plan	CITY owned plan that defines the strategy for communicating with employees and externally.	CITY
7	1	1.1	Change Order Process	Defines how changes to project scope will be logged, approved, and managed as agreed to by both parties.	Advanced
8	1	1.1	Training Plan	Jointly developed plan that defines CITY resources to be trained, the courses to be delivered, materials, locations, facilities and other resources.	Advanced
9	1	1.1	Test Plan	Jointly developed plan that defines CITY's testing phases.	Advanced
10	1	1.1	On Site Facilities	CITY will ensure that Advanced has working space and Internet access while the Advanced project team is on site.	CITY
11	1	1.2	Weekly and Monthly Status Meetings & Reports	Project meetings for Advanced and CiTY. Project core team members to discuss work in progress, issues, risks, actions, near-term planned activities and associated resource commitments. Status reports to document project progress.	Advanced
12	1	1.3	Quarterly Sponsor Meeting	Meeting attended by Advanced and CITY Project Manager and Project Sponsors to review project status.	Advanced
13	3	3.1	Hardware ready for Software Installation	Application and database server are on CITY network and the operating system and database software have been loaded.	CITY
14	3	3.1	Project Kick-Off Meeting Conducted	On-Site kick-off meeting held with the project team.	Advanced
15	3	3.1	CIS Infinity Server Installation	Installation of CIS Infinity on CITY servers. City will monitor process and perform physical install. Advanced will provide oversight of the installation.	Advanced/ CITY
16	3	3.1	Installation Training	Installation training for technical personnel.	Advanced
17	3	3.1	Desktop Client Installation	CITY to install client on remaining desktops.	CITY
18	3	3.1	Installation Sign-off	Sign-off of that all installation activities are complete.	Advanced
19	3	3.1	CustomerWise Overview and Set up	Advanced will provide CITY with and overview of CustomerWise, the online tool for documenting and tracking issues as part of the overall implementation. CITY users will be provided with user ids and passwords which also provide access to the Software	Advanced
				Entity relationship diagrams and the Data Dictionary.	A
20	3	3.1	Training Courses Syllabus	Document that outlines the duration, prerequisites	Advanced

Del #	Task Per SOW	Subtask Per SOW	Name	Deliverable Description/Definition	Deliverable Owner
				and topics to be covered during the Advanced delivered standard training courses.	
21	3	3.1	Project Team Contact List	Project listing of all Advanced and CITY project team members' contact information.	Advanced
22	3	3.1	System Overview Training	System overview training for core project team members.	Advanced
23	3	3.1	Functional and Data Conversion Discovery Workshop Agendas	Documents that outline the business and conversion processes to be discussed during the Functional and Data Conversion Discovery Workshops.	Advanced
24	3	3.2	Data Requirements for Functional Workshops	CITY to provide business process documentation as identified in Subtask 3.2.	CITY
25	3	3.2.1	Functional Discovery Analysis Workshop Conducted	Sessions that will assist Advanced in learning how CITY conducts business as well as educating CITY about the features and limitations of the Software. Advanced will lead the sessions with CITY business process experts participating.	Advanced
26	3	3.2.1	Functional Discovery Document	Document that captures all learning and understanding gained in the Functional Discovery Analysis Workshops. Document will serve as a template for configuring the Software. CITY will review and approve the document.	Advanced
27	3	3.2.2	Legacy System Conversion Information	CITY to provide, where available, the key information to assist Advanced in developing the conversion programs and activities. Legacy CIS table layouts, ERDs (if available), screen shots, baseline accounts etc. to be provided by CITY.	CITY
28	3	3.2.2	Data Conversion Discovery Analysis Workshop Conducted	Sessions that will assist Advanced in determining the best approach to converting legacy data. Advanced will lead these sessions with CITY technical and	Advanced
29	3	3.2.2	Data Conversion Plan	conversion/legacy data experts participating. Jointly developed plan that defines detailed processes and tools that will be utilized for the conversion and includes data mapping, legacy data quality assessment, data cleansing, technical design, development and testing. It will also define timing for when data cleansing will be complete as well as defining the amount of historical data that will be converted. The Plan will also identify data conversion validation parameters that define how the source and target data will be reviewed and validated as being correctly extracted.	Advanced
30	3	3.22	Data Cleansing and Initial Data Extract from Legacy CIS	CITY to perform data cleansing activities as identified during the Technical/Data Conversion Discovery Workshop. CITY to provide an initial extract of Legacy CIS data in the agreed upon format to Advanced. Data extract from the legacy system will be repeated for each test conversion. Advanced will support CITY where required.	CITY
31	3	3.3	Interface/Modification Discovery Workshop Agendas	Documents that outlines the items to be discussed during the Interface/Modification Discovery Workshop.	Advanced
32	3	3.3	Interfaces/Modification Workshop Conducted	Session that will aid Advanced in understanding modification requirements and the third party systems' interfacing capabilities to determine the best approach for interfacing with the identified third party systems.	Advanced
33	3	3.3	Technical Specification for Interfaces/Modifications	Technical Specifications for interfaces/modifications identified in Task 2.1 of this Statement of Work.	Advanced

Del	Task Per	Subtask Per	Name	Deliverable Description/Definition	Deliverable Owner
#	sow	sow			
34	3	3.4.1	Reports Discovery Workshop	Sessions to review the reporting requirements of CITY. Advanced will lead the sessions with CITY business	Advanced
				process experts participating.	
				Session to review of all bill print	Advanced
35	3	3.4.2	Bill Print Discovery Workshop	types/notices/receipts including a review of the bill	
				printing and bill re-printing processes. Advanced will lead the sessions with CITY experts participating.	
36	3	3.4.2	Bill Print Specification	Specification for bill print design	Advanced
30	3	3.4.2	bill Frint Specification	Session that will assist Advanced in learning how CITY	Advanced
				will deploy the customer web portal and educating	Advanced
37	3	3.4.3	Infinity.Link Discovery Workshop	CITY about the features and limitations of the	
				Software. Advanced will lead the sessions with CITY	
				business and technical experts participating.	
				Documents that captures the technical environment in	CITY
38	3	3.4.3	Infinity.Link Technical Checklist	which Infinity.Link will be deployed. CITY to complete	
				the checklist with Advanced's assistance.	
				Document that captures all learning and	Advanced
				understanding gained in the Discovery Workshop.	
39	3	3.4.3	Infinity.Link Discovery Document	Document will serve as a template for configuring	
				Infinity.Link. CITY will review and approve the	
		-		document.	A.I
40	3	3.5.1	Initial Data Conversion Load	Loading of initial conversion by Advanced on CITY's	Advanced
				system. CITY, with Advanced's assistance will identify baseline	CITY
				accounts to be used for testing during the Functional	CITT
41	3	3.5.1	Baseline Accounts	Test phase. These accounts will also be used to	
				validate the conversion.	
				Report that documents the results of the agreed upon	Advanced
42	3	3.5.1	Data Validation Results	conversion validation parameters for both the source	
	42 3 3.3.1			and target data.	
			taitial Contains Configuration	Configuration of the control forms and rates by	Advanced
43	3	3.5.1	Initial System Configuration Rollout	Advanced utilizing the approved Functional Discovery	
			Kollout	Document.	
				CITY to provide Advanced an extract of Legacy CIS data	CITY
	l			in the agreed upon format throughout the testing	
				phases (Conversion, Functional, ITC1, ITC2, UAT), as	
44	3	3.5.2	Legacy Data Refreshes	required. A minimum of six data refreshes are anticipated throughout the project, which include the	
				data refresh prior to Go Live. AUS will support CITY	
				where required.	
				Standard Training Workbooks that will be used to	Advanced
45	3	3.6	Training Workbooks	facilitate Core Team and End User training execution	
				for each training course identified in the Training Plan.	
				Execution and completion of Core Team training per	Advanced
46	3	3.6	Core Team Training	the Training Plan. Training will include CustomerWise	
				training.	
	_			Document that lists all reports provided by CITY and	Advanced
47	3	3.7	Reports Matrix	designates those reports that are standard within CIS	
				Infinity and those that require modification. Delivery of custom reports identified in the Reporting	Advanced
48	3	3.7	Custom Reports Delivery	Matrix.	Advanced
				Configuration and testing of configuration type	Advanced
49	3	3.8	Interface Configuration and	interfaces that have been identified in Task 2.2 of this	
	_		Testing	Statement of Work.	
				Code Modifications and Interfaces as described in Task	Advanced
F.C	_	2.0	Code, test and rollout of	2.1 of this Statement of Work. Advanced developed	
50	3	3.8	Interfaces/Modifications	interfaces will be tested by Advanced before	
				integrating into CITY environment.	
E 1	2	2.0	Tost Serints Evacution	CITY to conduct testing as outlined in the Test Plan,	CITY
51	3	3.9	Test Scripts Execution	document test results (pass/fail) and log any issues in	

Del #	Task Per	Subtask Per	Name	Deliverable Description/Definition	Deliverable Owner
	sow	sow		Contamonal Micro for recolution by Advanced	
				CustomerWise for resolution by Advanced. Loading of conversion data by Advanced on CITY's	Advanced
			Functional Test - Data	system. Includes audit report that documents the	Advanced
52	3	3.9.1	Conversion Data Load &	results of the agreed upon conversion validation	
			Validation	parameters for both the source and target data.	
				Advanced will furnish a document outlining all	Advanced
				necessary rates and rate scenario's to be tested. CITY	
53	3	3.9.1	Rates Testing Matrix	is responsible for testing and confirming all rates and	
				rate scenarios are accurate and reflect the billing	
				requirements of CITY.	
	_	202	Internation Test Corinto	Generic Integration Test scripts provided by Advanced.	Advanced
54	3	3.9.2	Integration Test Scripts	Scripts are designed to test the standard interfaces.	
			Integration Test - Data	Loading of conversion data by Advanced on CITY's	Advanced
55	3	3.9.2	Conversion Data Load &	system. Includes audit report that documents the	
33	٦	3.5.2	Validation	results of agreed upon conversion validation	
			Validation	parameters.	
			User Acceptance Test - Data	Loading of conversion data by Advanced on CITY's	Advanced
56	3	3.9.3	Conversion Data Load &	system. Includes audit report that documents the	
30		0.5.5	Validation	results of the agreed upon conversion validation	
			74.154.154	parameters for both the source and target data.	
57	3	3.10	End User Training & Sign off	Execution and completion of End-User training per the	Advanced
J,		3.10	End oser Training & sign on	Training Plan.	
				Criteria that will be adhered to enable cutover to	Advanced
		:		Production to proceed. It includes metrics to evaluate	
58 3 3	3.11	Go/No Go Criteria Document	project management readiness, business solution		
				testing readiness, business readiness, IT infrastructure	
				readiness and reorganization/people readiness.	
				Defines the outcomes of application readiness based	Advanced
				on the defined Go/No Go Criteria document and	
				Cutover Plan defined. The result will be a decision to	
			Co / No Co Donicios Document	Go-live or to identify issues that will need to be	
59	3	3.11	Go / No Go Decision Document	resolved prior to Go-Live or can be deferred to post go-live. The decision to transition to Go Live will be	
	}		approved for Go Live	approved when the items defined in the Cut-Over and	
				readiness assessment has been successfully achieved	
				and there are no significant agreed upon issues that	
				will impact transition to Production.	
				Defines steps and responsibilities of Advanced and	Advanced
				CITY during transition to Production. Includes steps to	
60	3	3.12	Cutover Plan	achieve system balance and includes a conversion	
	-			cutover plan.	
				Loading of conversion data by Advanced on CITY's	Advanced
C1		2.12	Go Live - Data Conversion Data	system. Includes audit report that documents the	
61	3	3.12	Load & Validation	results of the agreed upon conversion validation	
				parameters for both the source and target data.	
				System is operating and being used. Balancing of	Advanced
62	3	3.12	Go Live	legacy and Advanced CIS has been validated and	
				signed-off by CITY.	
63	3	3.13	Completion of Post Live Support	Conclusion of Post live support period, which includes	Advanced
- 03		3.13	Completion of Fost Live Support	remote and/or onsite presence.	
				A transition meeting to transfer from the project	
64	3	3.13	Support Transition Meeting	implementation phase to the support phase of the	Advanced
				contract.	
c r	,	2 12	Completion of Post Live	Completion of interfaces designated as Post Live	Advanced
65	3	3.13	Interfaces	Completion of interfaces designated as rost live	Auvanceu

Appendix C – Sample Communication Plan





CLIENT CIS Infinity Communication Plan

Jul-07-2014

Principle Author: PM Team



The undersigned individuals have reviewed this document and are in agreement with its content.

Document Approval

Project Role	Team Member	Signature / Date of Signature
Client Project Manager		
		Date:
Advanced Project Manager		
		Date:
(other)		
		Date:

Version History

Version	Status	Date Issued	Author(s)	Notes
V1.0	draft			



a Division of N. Harris Computer Corporation

Table of Contents

Preface	4
Overall Communication Approach	5
1. Weekly Team Meetings (Advanced/Client)	5
2. Monthly Project Status Review	6
a) Monthly Project Status Report:	6
3. Monthly Risk Management Plan Review	6
4. Quarterly Sponsor Reviews	7
5. Escalation Process	8
6. Communication Tools	9
a) CIS Project Plan:	9
b) Risk Management Plan:	9
c) Change Management Plan:	9
d) Test Plan:	9
e) Training Plan:	10
f) Conversion Plan:	10
g) Organizational Readiness Plan:	10
h) Go-Live Plan:	10
i) Monthly Project Status Report:	10
j) Key Deliverables Report:	10
k) CIS Open Issues Report:	11



Preface

This document has been created to provide client with an approach to communication that will ensure a successful project at Go Live.



Overall Communication Approach

There will be several methods through which communication will take place during the CIS implementation project. There will be Weekly and Monthly Review meetings, Monthly reports, Quarterly Sponsor Review meetings, an Escalation Process, and several tools within those processes that will be updated to ensure a clear understanding of our project standing relative to an on-time, on-budget delivery.

1. Weekly Team Meetings (Advanced/Client)

The Weekly Team Meeting between Advanced Utility Systems (Advanced) staff and Client staff will be at a preset day and time. Attendees will include key Advanced team members (Project Manager, Conversion Lead, and Technical Lead) along with technical/functional area experts as needed throughout the project. Weekly attendees for Client should include Client Project Manager, Client Core Team, and subject matter experts, as needed.

The topics that will be covered during the Weekly Team Meetings will ensure a clear understanding of project status is listed below. The primary focus during the Weekly Team Meetings is to review these areas for recent performance and upcoming areas of work in the next two weeks. More in-depth, broad-based reviews of these same areas will be completed each Month at the Monthly Project Status Review.

Weekly Team Meeting Areas for Review:

- Key Deliverables Report
- CIS Project Plan
- CIS Open Issues/Action Items
- Risk Management Plan
- Two week look-ahead for resource planning

<u>Key Deliverables Report:</u> The Key Deliverables Report is a summary of all the key deliverables identified in the CIS plan. For each deliverable item a responsible person is identified with the original due date, revised date, and completion date, current item status, and comments/notes pertaining to the deliverable.

<u>CIS Project Plan:</u> The CIS Project Plan will be provided by the Advanced Project Manager for weekly review of the last week's project work and the work in the short-term (approximately two week) work horizon.

<u>CIS Open Issues/Action Items:</u> Issues found within the Infinity software and add-on products will come from CustomerWise – an issue tracking tool which Advanced uses internally and externally with Client teams to track issues. All items in the list that have a status of "Open" will be reviewed, based on priority. Unassigned items are assigned and given a priority and due date. All prior assigned items are reviewed as for status and closure based on priority.

Additional project Issues and Action Items that are not specific to the software will be tracked in a section of the Monthly Report. Owners will be assigned and the Issues and Action Items will be reviewed on a weekly basis.



Risk Management Plan: The Risk Management Plan will be reviewed specifically regarding any new risks that have come up or significant changes in risk status during that week of the project. If a new risk is identified, it is documented in the report, given an impact and priority, and a mitigation plan. Similarly, if there is a significant change to the status of a risk, the changes are documented and alternative plans are made or mitigation plans are carried out as quickly as possible to minimize the potential impact to the project.

2. Monthly Project Status Review

The Monthly Project Status between the Advanced staff and Client staff will be at a scheduled time each month. Attendees will include the Advanced Project Manager and Client project manager. Any additional key Advanced or Client team members (e.g., Application Consultant, Tech Lead, Core Team members, or special area experts) will attend if needed.

The primary deliverable for the Monthly Project Status Review is the Monthly Project Status Report. The Monthly Project Status Report will include the pieces listed below. Many of the same areas that are reviewed in the Weekly Team Meetings will be reviewed in the Monthly Review, but in more depth and looking farther out into the project schedule.

a) Monthly Project Status Report:

- A percent complete will be provided for the project thus far. Any variances in schedule or work will be provided if the percent complete is different than what was expected from the prior month.
- An expected percent complete will be forecast for the end of each of the project's upcoming months.
- The current Risk Management Plan will be included and risk status will be reviewed. Additionally, a once monthly Risk Management Plan review will take place in a separate meeting to ensure that Risks are being dealt with in a proactive fashion (see section 3 below).
- The current Key Deliverables Report will be included and reviewed in detail for the next one to two months of project schedule.
- The CIS Project Plan will be included and reviewed in detail for the next one to two months of the project schedule.
- The CIS Open Issues report from CustomerWise will be reviewed specifically for high priority items and any potential changes in project scope. If necessary, those items will be added to the Risk Management Report and the monthly Risk Management Report Review. Additional Issues and Action Items that are not software specific will be reviewed in a separate section in the Monthly Report.

3. Monthly Risk Management Plan Review

The Risk Management Plan will be reviewed on a monthly basis between Advanced and Client project managers. In this monthly review, ALL risks will be analyzed to be updated, closed, or continued on in their current status. Any new risks that the teams have identified can also be added and prioritized at this time.



4. Quarterly Sponsor Reviews

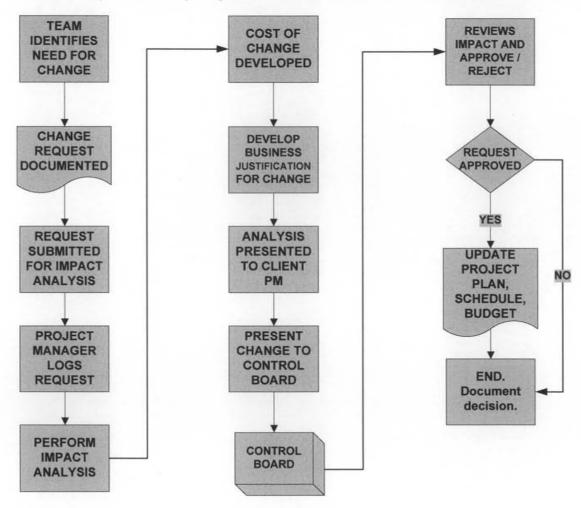
The Quarterly Sponsor Review will include Advanced and Client Project Managers and Project Sponsors. This review will take place at Client site once a quarter. The intent of the Quarterly Sponsor Review Meeting is to ensure that the project is on-time and on-budget, and that Executive Management for both Advanced and Client have a clear view into the project status. The primary tool that will be used to do the Sponsor Review is the latest month's Monthly Project Status Report. The intended level of attention to detail during this meeting is to identify areas of concern or material change to the project. A MS PowerPoint deck will be created to highlight the following areas:

- The percent complete for the overall project thus far. Descriptions of any material variances in schedule or work will be provided if the percent complete is different than what was expected from the prior month
- An expected percent complete will be forecast for the end of each of the project's upcoming months.
- The current Risk Management Plan will be included and risk status will be reviewed, based on priority of risks.
- The current Key Deliverables Report will be included and reviewed for any areas of concern or material change to the project.
- The CIS Project Plan will be included and reviewed for any areas of concern or material change to the project.



5. Escalation Process

The primary level of issue resolution on the CIS project is with Advanced and Client project managers. In the event of an issue that cannot be resolved between these two parties, the Project Sponsors for Advanced and Client will be contacted to resolve the problem.





6. Communication Tools

Advanced and Client will use several different tools in the course of the CIS project. Some of the tools created will be used in the periodic review meetings (e.g., the CIS Project Plan, the Risk Management Report, the Key Deliverables Report). Some tools will be created once and be more static in nature (e.g., Configuration Management document, the Communication Plan). Finally, there are tools that will be continually updated throughout the project as guides to future effort (e.g., Test Plan, Training Plan, Go-Live Plan). Descriptions of these tools are included here.

a) CIS Project Plan:

This is a project schedule documented using the MS Project software. It contains the basic Work Breakdown Structure for the project. The work involved in the project is broken down into detailed tasks which can be rolled up into summary tasks. Dependencies throughout the project are provided as links between the tasks such that the project managers can project the future impact of schedule changes to a project. Resource names, task durations and dates are included within this plan. It is to be updated weekly and used as a primary tool in the Weekly Team Review Meetings, Monthly Project Status Report and Meeting, and the Quarterly Sponsor Reviews.

b) Risk Management Plan:

The Risk Management Plan lists the significant issues and risks to the CIS project. Each risk is described, and an impact is defined were the risk to occur. Each risk is then prioritized in terms of severity and given one of several risk mitigation strategies. The risk mitigation strategies can include several different approaches to provide a reduced impact of risk for the overall project.

c) Change Management Plan:

The Change Management Plan is created to assist Client in having a successful adoption of CIS Infinity by their staff. This Plan will include internal communication strategies on the party of Client (e.g., staff newsletters). It will also include more in-depth strategies on how to include end users in significant enough exposure to the system to reduce overall strain and increase the chances of successfully using the software at Go-Live.

d) Test Plan:

The Test Plan document has been created to provide Client an approach to testing that will ensure a quality product at go-live. There will be four phases in the overall testing approach: Functional Test, Integration Test, Stress, and User Acceptance Test. There will be test scripts written for each of these phases. The progress of all Test Plan phases will be tracked in a Test Matrix to ensure complete testing of the system.

e) Training Plan:

The Training Plan provides Client with a guide to training their Core Team and End Users such that the staff will be able to successfully use CIS Infinity at Go-Live. The training will include Core Team Training, Technical Training, and End User Training. Specifically, parts of the Training Plan should be linked to the Test Plan to increase On The Job Learning (OTJL).

f) Conversion Plan:

The Conversion Plan contains the steps Client will follow during their Go-Live conversion process. This will be used repeatedly as a guide to early cuts of the converted data to ensure that Client team is ready to execute the conversion at the time of Go-Live.

g) Organizational Readiness Plan:

The Organizational Readiness Plan contains all of the pieces necessary for Client to successfully go live on the software. This Plan will include pieces of many of the other documents listed here (e.g., Change Management tasks, CIS Project Plan tasks, Hardware and Software environment information). This plan describes all of the key pieces for the Go/No-Go decision point one month before Go-Live.

h) Go-Live Plan:

The Go-Live Plan is a checklist created to assist Advanced and Client in having a successful Go-Live process when taking the legacy system to production on CIS Infinity. This Plan will include a list of specific tasks, roles and responsibilities specific to the week before and the two weeks after Go-Live. This plan typically begins development once configuration is complete.

i) Monthly Project Status Report:

The Monthly Project Status report is the document used to ensure a clear understanding between the Advanced and Client Project Managers of the status of the project related to an on-time, on-budget delivery. It contains several pieces of information (please refer to the Monthly Project Status Review in the prior section for more detail).

j) Key Deliverables Report:

See Section 1 above.



See Section 1 above.

Appendix D - Sample Change Order





CLIENT CIS Infinity Change Order

Date:

Jul-07-2014

Change ID: Change Order #

Description: [Description Title of Change]



Authorization

Advanced Utility Systems is authorized to proceed with the change for Client.

Project Role	Team Member	Signature / Date of Signature
Client Project Manager		
		Date:
Advanced Project Manager		
		Date:
(other)		
		Date:



Change Details	Cha	nge	De	tails
-----------------------	-----	-----	----	-------

Enter details for change here.

Estimate of Hours / Costs *

a) Requirement	b) Hours	c) Cost (\$USD)
Total		\$

^{*} Net of applicable taxes and associated expenses

Please note that these hours represent an estimate to successfully complete the required configuration for [Client].

Schedule "B" Fee Structure and Payment Schedule

The total Services fees payable under this Software Implementation Services Agreement are \$941,850.00, inclusive of travel related expenses. Amount is not inclusive of those elements which are specifically excluded as described in the Software Implementation Services Agreement.

	Description	Quantity/ Hours	Cost
Services Fees	Project Management	700	\$105,000
	Discovery	500	\$75,000
	Data Conversion	600	\$90,000
	Configuration	1180	\$177,000
	Core and End user Training	800	\$120,000
	Interfaces	854	\$128,100
	Modifications (including Reports)	285	\$42,750
	Post Live Support	160	\$24,000
	Total Implementation Service Fees	5079	\$761,850
Estimated Travel Related Expenses			\$180,000
			\$941,850
	Total		

<u>Implementation Service Fees Payment Milestones</u>

CITY will be billed monthly by Advanced for milestones completed during the month. The service fees milestones are as follows:

Reference	Milestone – CITY will be billed monthly for all milestones completed during the month (i.e. one invoice per month).		Invoice Amount	
MP1	Project Management Month 1	\$	13,500	
MP2	Project Management Month 2	\$	7,362	
MP3	Project Management Month 3	\$	7,362	
MP4	Project Management Month 4	\$	7,362	
MP5	Project Management Month 5	\$	7,362	
MP6	Project Management Month 6	\$	7,362	
MP7	Project Management Month 7	\$	7,362	
MP8	Project Management Month 8	\$	7,362	
MP9	Project Management Month 9	\$	7,362	
MP10	Project Management Month 10	\$	7,362	
MP11	Project Management Month 11	\$	7,362	
MP12	Project Management Month 12	\$	7,380	
MP13	Installation of CIS Infinity Sign off	\$	10,800	
MP14	Delivery of Functional Discovery Workshops	\$	45,000	
MP15	Functional Discovery Document Signoff	\$	22,500	
MP16	Delivery of Data Conversion Workshop	\$	13,500	
MP17	Data Conversion Plan Sign off	\$	9,000	
MP18	Interface & Modification Workshop	\$	13,500	
MP19	Functional & Technical Specification Signoff - Modifications & Development Interfaces	\$	22,500	
MP20	Delivery of Reports Matrix	\$	6,750	
MP21	Initial Conversion Rollout	\$	40,500	
MP22	Initial Configuration Rollout	\$	18,000	
MP23	Completion of Core Team Training	\$	27,000	
MP24	Data Refresh # 2 Load (Functional Testing)	\$	13,500	
MP25	Functional Testing Sign off	\$	36,000	
MP26	Custom Reports Completion & Signoff	\$	6,750	
MP27	Data Refresh # 3 Load (ITC #1)	\$	9,000	
MP28	Integration Testing Cycle 1 Sign off	\$	27,000	
MP29	Deployment of Modifications	\$	27,000	
MP30	Deployment of Configuration Type Interfaces	\$	22,500	
MP31	Deployment of Development Type Interfaces	\$	33,840	
MP32	Data Refresh # 4 Load (ITC #2)	\$	9,000	

MP33	Integration Testing Cycle 2 Signoff	\$	18,000
MP34	Data Refresh # 5 Load (UAT)	\$	9,000
MP35	User Acceptance Testing Sign off	\$	18,000
MP36	Completion of Week 2 End User Training	\$	20,250
MP37	Completion of Week 4 End User Training	\$	20,250
MP38	Completion of Week 6 End User Training	\$	20,250
MP39	Completion of Week 9 End User Training	\$	20,250
MP40	Go Live	\$	9,000
MP41	Completion of Month 1 Post Live Support	\$	21,600
MP42	Completion of Interface 2.1.2 - Munis Master Customer Database	\$	8,775
MP43	Completion of Interface 2.1.5 - Munis Work Management System	\$	12,150
MP44	Final System Acceptance	\$	76,185
	Totals	\$	761,850

Schedule "C" <u>Sample Form Change Order</u>

Change Order

(a) Contact & General Information		
Client Client Contact	Software Applicatio	
Client Email		
(b)		
(c) Description of Work		
Attachments:		

000		\$0.00
Chargeable Hours	Rate	Amount
000	000	
Non-Chargeable Hours	Total Hours	

Client Signature

Date

Your signature serves as an acceptance of the "Amount" listed above as it relates to the description of work contained in this Change Order. Your signature also indicates you have reviewed and agree to the scope of work as detailed in any accompanying enclosures or attachments. This signed document indicates that you have provided all of the accurate information necessary to produce the work as stated in the above Change Order.

(e) Internal Us	se Only			
Customer #	Application #	Originated by #	РО#	000000

Schedule "D"

Documents from Consultant's Proposal including the cover letter, pages 1-5, 13-132, and 142-156, the proposed Project Plan (pages 1-15), responses to the General and Technical Specifications (pages 1-12), and responses to the Utility Billing Specifications (pages 1-20).



January 8, 2013

Finance/Purchasing Division Will Hobart Purchasing Agent 701 E. Broadway, 5th Floor Columbia, MO 65201

Re: COFERS RFP # 158-2012

Dear Mr. Hobart:

I would like to thank you for providing Advanced Utility Systems, a division of N. Harris Computer Corporation ("Advanced") with the opportunity to respond to the City of Columbia's (the "City's") RFP for a Columbia Financial Enterprise Resource System (COFERS). As a best in breed Customer Information System (CIS) solution provider, our proposal addresses the City's Customer Information system line of business requirements. I am pleased to provide one (1) original, along with five (5) printed copies and one (1) electronic copy of our proposal.

Advanced offers proven customer information and utility billing software, CIS Infinity®, which we have successfully implemented in over 120 organizations across North America and the Caribbean. It is powerful, feature-rich, flexible software. Along with the core modules of cash processing, billing, reporting and collections that support revenue management activities, it includes many features (contact management, alerts, bill formatting, inventory management) designed to allow the City to provide exceptional customer service.

I have reviewed and accepted the Terms and Conditions set forth in the RFP. However; in the event that Advanced is selected as the awardee for the contract to be awarded under this RFP, we request an opportunity to meet with representatives of the City to review, negotiate, and mutually agree to all contractual terms and conditions that will govern the services to be provided. Advanced is prepared to promptly devote resources to such discussions so that a mutually acceptable contract may be concluded in an expeditious manner that aligns with the anticipated project schedule. Our submission of a proposal in response to the RFP should be considered a commitment to provide the services sought under a fair and reasonable agreement between the parties. We are mindful that the City as a public entity may be required by statute and regulation to include certain clauses in any final contract. We look forward to working with the City to finalize contract terms and conditions for this project that adequately address and protect the core interests of each party.



I also certify that as of the proposal submission date, we are compliant with all applicable Federal and State laws and regulations and that our software meets Payment Card Industry (PCI) Data Security Standards (DSS) as evidenced by our inclusion in the PCI Security Standards' List of Validated Payment Applications:

https://www.pcisecuritystandards.org/approved_companies_providers/vpa_agreement.php

This proposal is valid for 180 calendar days from the proposal deadline date of January 11, 2013.

I, Peter Fanous, Executive Vice President, Advanced Utility Systems, a division of N. Harris Computer Corporation, am the individual who is authorized to negotiate and obligate the organization contractually.

The contact person responsible for this response is as follows:

Lori Hogg Regional Sales Manager 2235 Sheppard Ave East, Suite 1400 Toronto ON M2J 5B5 (T) (416) 496-0149 Ext 210 (F) (416) 496-3910

Ihogg@advancedutility.com

We have learned a great deal about the City from this RFP and welcome the opportunity to meet with the City's team to discuss the details of our proposal.

Sincerely

Peter Fanous

Executive Vice President, Advanced Utility Systems



1 Executive Summary

As a "best of breed" Customer Information System (CIS) solution provider, Advanced Utility Systems is proposing the implementation of CIS Infinity customer management and utility billing solution along with Infinity.Link, our customer self-service module to meet the City's utility billing requirements.

Advanced has built its organization around its core competency: serving utilities' needs with state-of-the-art software and support. Advanced has successfully implemented our solution for 120+ utilities that provide electric, water, sewer, and other utility related services. Advanced's utility industry focus and our extensive experience in successfully implementing our solution for water utilities like the City enables us to share utility best practices with our customers to ensure a successful deployment and long term use of our solution.

Advanced is committed to establishing a long term partnership with the City. This starts with the successful implementation of our solution and continues with providing high quality ongoing support. Our experienced implementation team will deliver a solution that will meet and exceed the City's needs.

We would like to highlight the advantages of our solution that we believe make Advanced the right utility billing solution partner for the City.

Comprehensive "COTS" Functionality: CIS Infinity has unmatched functionality available standard which means the City can meet its needs and more without extensive customization to complete core business process functions.

Configuration not Customization: Every utility has unique business processes that must be supported by their systems without having to rely on their vendor to configure changes. All rules, rates, and workflows are control table driven, not "hard coded" to meet the requirements of a single customer. By replacing custom coding with sophisticated configuration tools, implementation is faster, more reliable and reduces your total cost of ownership. When new requirements emerge in the future, the City can use in-house administrative staff to make the changes, eliminating custom coding projects that can result in unexpected, budget-breaking costs.

Quick Access to Customer Information: CIS Infinity is easy to use and navigate. Users can access key information on a single screen – no need to jump from screen to screen to obtain information and perform routine billing functions. This makes training and user adoption faster and easier and helps CSR's obtain information they need for first call resolution. Additionally with the deployment of Infinity.Link, Advanced's real time integrated customer web portal, the City will enable its customers to conduct their utilities business on a 24 x 7 basis by offering electronic billing and payment and other customer self-service capabilities, thereby reducing the number of call in requests from customers.

Workflow Automation and Routing: CIS Infinity's "Actions" and workflow will enable the City to reduce manual processes and improve operational efficiencies through system



automation. Collection processes (e.g. customer reminders, penalties), service order generation (e.g. move in/out), and more can all be automated through use of user defined Actions.

Flexible Reporting: CIS Infinity has a powerful standard reporting engine and provides five levels of reporting. CIS Infinity enables end users (without IT assistance) to access the data within the system. This will provide City management with the information they need for enhanced performance management.

Reliable & Current Technology: CIS Infinity is a client server application that was built using Microsoft development tools and utilizes a relational database management system that supports ODBC. As a Windows application, the client software resides on the desktop and integrates with all industry standard desktop productivity tools including Microsoft Office. The architecture results in proven reliability, and the skill sets required for the Windows platform are to find and easy to learn. Advanced's technology is consistent with the IT standards of the City which will eliminate the need for the City to require costly specialized resources to support CIS Infinity.

Implementation Excellence: Advanced and our customers have received numerous awards, certifications and recognitions for the quality of our implementations and solutions as noted below. One such award was Best CIS Implementation - CS Week and Electric Light & Power's 2011 Expanding Excellence Awards program - that was awarded to Saint Paul Regional Water Services, MN for the implementation of CIS Infinity.

Total Support: The Advanced solution includes software, implementation services, extensive technical support, regular upgrades and improvements, and the establishment of a solid, productive relationship with the City.

In summary, our products' flexibility, reliability, comprehensive capabilities, easy to use interface, along with our long term commitment to our customers' success are just some of the key reasons why the City should consider Advanced as a partner for your CIS/Utility Billing solution.

We look forward to building a mutually rewarding, long term, partnership with the City and to the opportunity to successfully implement our solution at the City.



2 Company Background

In addition to providing responses to the following items, the Vendor must complete the Company Background Form in section 6.5 of this RFP.

Vendors must provide information about their company so that the City of Columbia can evaluate the Vendor's stability and ability to support the commitments set forth in response to the RFP. Information that Vendors should provide in this section are as follows:

1. The company's background including a brief description (e.g., past history, present status, future plans, company size, etc.) and organization charts.

Advanced Utility Systems was established in 1997 to provide Customer Information and Billing solutions exclusively to utilities and municipalities.

Having established itself in Ontario, Advanced has become a reliable and proven organization for water, electric, gas and sanitation service providers in the diverse CIS market. Today, Advanced has more than 120 successful customer deployments across North America, Central America, South America and the Caribbean which proves our depth of experience when it comes to delivering a market leading solution.

Advanced has built its organization around its core competency: serving utilities' needs with state-of-the art software and support. Technically strong, approximately 90% of its staff is devoted specifically to Development, Support, and Customer Service.

Wholly owned by N. Harris Computer Corporation (Harris), Advanced is recognized as its own entity within the organization. Harris in turn is governed by Constellation Software Inc. a publicly traded company on the Toronto Stock Exchange (CSU).

Advanced provides its customers with the commitment and focus of a dedicated partner with the financial strength of a large organization.

Advanced continues to add new clients at a steady pace. In growing our business, we do not want to lose sight of our most important asset – our existing client base. Advanced was built on client references. In the software world, word-of-mouth is the strongest endorsement any company can achieve and Advanced vigorously pursues this approach. At the same time, developing innovative functionality, expanding existing modules and releasing new software enhancements every three months are major objectives. We want to ensure that our clients have the most up-to-date resources and tools at their fingertips and that they are equipped with current technology.

The goal of Advanced Utility Systems is to provide the most user-friendly, functionally rich and technically robust CIS and utility billing system to the market.

Key to our success has been a strong strategic product vision and outstanding execution of that vision within our product suite.

ADVANCED

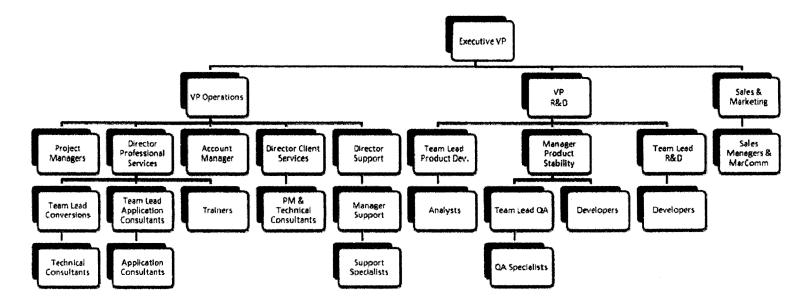
Advanced's strategic vision with the CIS Infinity product suite is to build upon our existing rich product functionality for the electric, water and gas utility industry. We are constantly analyzing significant trends in the North American and Caribbean CIS and utility billing software industry. By listening to our clients and anticipating their needs, we offer the most functionally rich CIS system in our market space. To further enhance our core CIS product suite Advanced evaluates the market and partners with leading industry organization's which offer complementary solutions.

Advanced derives its product direction by listening to our client base – primarily with the assistance of our executive steering committee, our functional and regional user groups, our Support center and our annual users conference. Our experienced staff contributes to our product direction by sharing their best practices learned through client implementations and their strong knowledge of the utility industry.

Organization Chart

Advanced invests heavily in developing, testing, implementing and supporting CIS Infinity. 93% of our team members are a part of the Professional Services, Research and Development or Support department. Our organization is focused only on adding value to your utility billing solutions. Advanced will prime the proposed solution.

The structure of our organization is outlined in the following chart:



City of Columbia, Missouri 5

3 Proposed Solution

As the City of Columbia is contemplating a City of Columbia-hosted versus Vendor-hosted solution, aspects of the proposed solution to be provided should be clearly delineated where they vary between these two approaches in the sections below.

3.1 Application Software

The Vendor is required to provide a general description of the application program product and how it will meet requirements of this RFP. This section must address, at a minimum, the following items:

1. Describe your overall proposed technology solution.

The following provides in detail, the features and capabilities of CIS Infinity.

CIS Infinity is not modular and all functionality is included as part of the base package as listed below:

Functionality	提供
Alerts/Action	Financial Reports
Advanced Reports	Inventory Management
Advanced Reports Billing Auto Final Bill Bill Re-print Bill Journal Cancel-Re-bill Process Cycle Billing Estimating Exceptions Final Billing Pre-Exceptions Regular Billing Manual Billing Flat Rate Billing	Backflow Device Electric Meter Gas Meter Instrument Transformer Key Management Propane Tank Solid Waste Streetlight Water Heater Water Meter Transformer/Loading Loans Memberships
Service Add/Remove Cash Register Bill Payment Credit Card Authorization OCR/Barcode Scanning Receipt Printing Sundry Payments Collections Arrangements Assistance Agency Bankruptcy Credit Rating	Meter Reading Move In/Move Out Multiple Receivables New Services Payment Processing Adjustments Bank File Import Deposits Payments Penalties Post Dated Checks Third Party File Import
Disconnect/Reconnect Late Charge / Discount	Period End Routines



Notices Post-Date Inquiry Write-Offs 3rd Party Notification

- Contact Management
- Correspondence Management
- Customer Service Inquiry

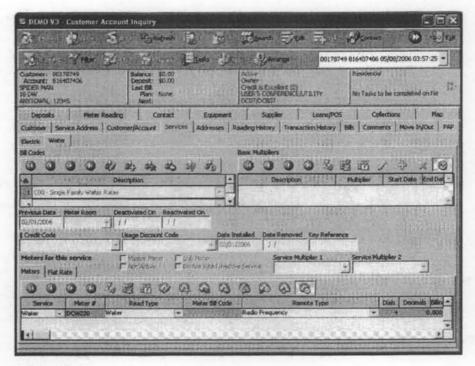
- Point of Sale
- · Pre-Authorized Payment
- Rate Management
- Scheduler
- Service Orders
- Security

Account Management

CIS Infinity's user interface is designed to provide access from the account inquiry screen to all customer information with the click of a mouse. CIS Infinity retains all customer history including calling history, correspondence notes, comments, service orders, usage, credit and payment for an unlimited period of time. It can manage single accounts, master accounts and temporary accounts. CIS Infinity also provides access to available and installed service offerings, product offerings, equipment offerings and program offerings.

Utilities need to use the customer account for multi views into account transactions, consumption, payments, billings and adjustments. Account specific notes are readily handled by CIS Infinity. Menus are dynamic and as such users can decide what to call files and how the menus are to be organized.

Navigation throughout CIS Infinity is simple. All information associated with a customer is available on a single, easy to read window. Common functions are available on the toolbar at the top. Below the toolbar is the Customer Information Band, which provides the most commonly accessed data at a glance. Seventeen well-organized tabs provide further information regarding the account. Data associated with that tab is available in the center of the window along with functional buttons. Accounts are located by simply typing the account number at any location throughout the software. A detailed search is available which may be customized to locate particular criteria. Clicking 'More' on the toolbar exposes a browser-like history of the most recently accessed accounts.



Billing Management

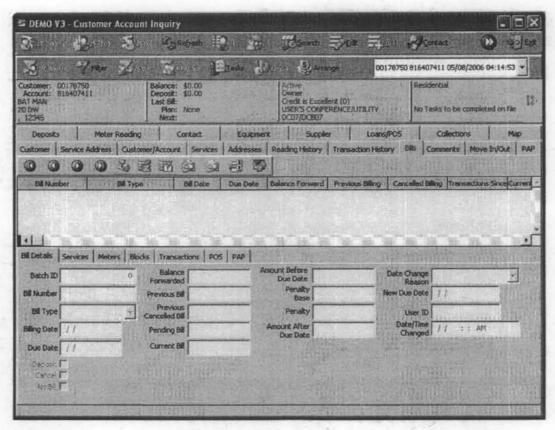
With CIS Infinity, you can implement a wide variety of complex billing processes, including

- consolidated bills for large industrial or government clients
- miscellaneous billing for non-utility transactions.
- billing for different types of readings, including meter reads and consumption

Real time transactions eliminate the need for day-end processing. The integration of the customer information component and the billing component of CIS Infinity makes processing adjustments, estimates and final bills quick and easy. You can define your own exception parameters and processes, make special discount and credit arrangements for individual customers, implement alternative tax rates and apply multiple taxes.

Cycle, date and event driven billing schedules are all supported by CIS Infinity. Time and volume based consumption are tracked and recorded through interval meters, while consumption validation and estimation algorithms are handled through customer-based exception checking and billing.

CIS Infinity provides you with simplified billing processes, including cancel and re-bill, bill re-print based on revised consumption history, single bill print from archives and bill register re-print. Bill registers are archived electronically. You have greater precision for exception checking, usage quoting and estimating based on unlimited reading history.



Estimating

CIS Infinity can be configured to offer different estimating procedures for each service. Bills, deposits and equalized billing can be estimated based on a user-defined formula, for example

- the amount of the last bill,
- the average of the last six months, year or two years,
- the same as the bill six months, year or two years ago.

With CIS Infinity you can also track the history of the service address and the previous customer's history for greater estimating precision.

Pre-authorized payment

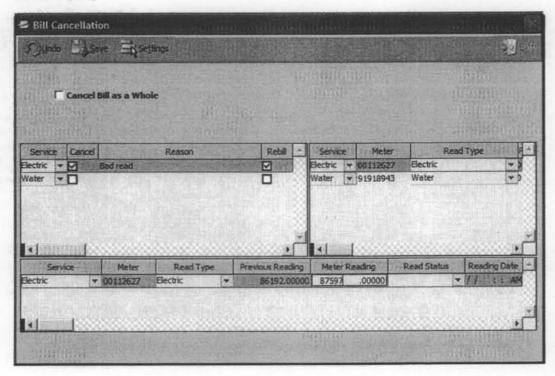
CIS Infinity makes it possible for your organization to offer five different types of preauthorized payment plans, including equalized and actual billing. CIS Infinity interfaces with all major financial institutions. Users can define the equalized payment quote formula based on consumption history. Payment plan accounts can be automatically reconciled and reminders and/or labels can be produced. Customers are able to choose which days their payments are drawn from their accounts.

Consolidated billing

With CIS Infinity, you can consolidate bills from several accounts in one bill (for example, one bill for a landlord who owns several properties). You can also meet specific billing requirements for certain individuals, regardless of when or how the bill is produced (for example, large-print bills or bills in a language other than English).

Canceling and re-billing

CIS Infinity allows users to cancel and re-bill inaccurate bills in one step. If an adjustment needs to be performed on a bill, the customer service representative can select the bill and request to cancel and re-bill it. When the bill is canceled the software will prompt the user for a new read. When the new read is inserted the bill will be picked up in the billing procedure, re-printed and updated automatically. A customer service representative can choose to cancel and re-bill the entire bill or individual services on the bill. If there is no read available the customer service representative can simply cancel the bill and choose not to re-bill the account.





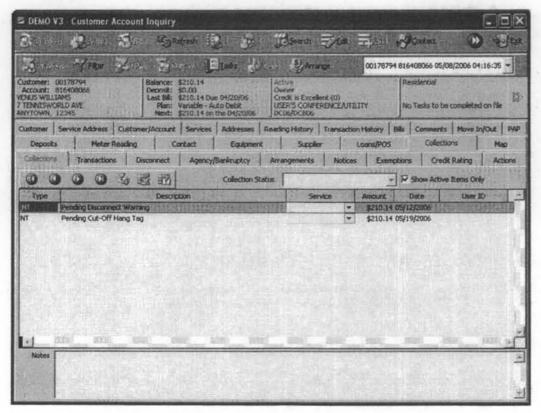
Credit and Collections Management

Collections procedures including penalty pick up are automated based on collection parameters defined by the user. CIS Infinity will build credit ratings based on your specifications. The software stores unlimited collection history for each account, which is quickly accessible through the customer information screen. Collection history is customer specific and aggregates a customer's credit rating based on all of their previous properties. CIS Infinity automatically tracks payment arrangements and their current status, initiates collections procedures (call, notice and print) and assigns follow-up tasks.

Like your Service Order workflow, your Collections workflow can be fully **automated**. Tasks for other users, letters to customers, service orders, bill messages, and a variety of other actions can be automatically generated based on a customer's collections activity.

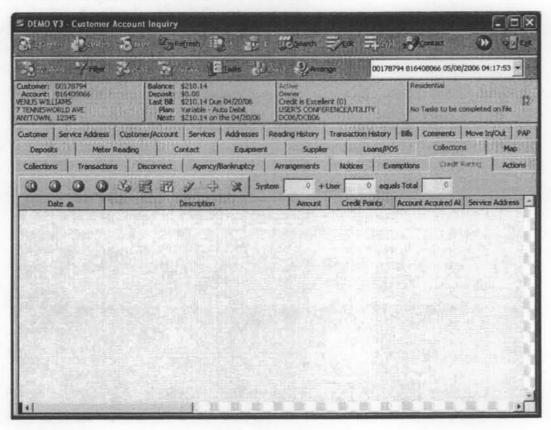
In addition, Collection parameters are specifically designed for deposits. CIS Infinity can be configured to provide automated interest pick up with interest applied to either the deposit or the account. CIS Infinity also provides for the set-up of late payment and returned check penalties. The system can also be easily configured to accommodate third party, guarantor and co-signer relationships.

Arrangements may be added from the Customer Account Inquiry form by clicking on the 'Contact' tab. After clicking on the 'Add' button the Customer Account Arrangement window appears which allows for data entry. Once entered, the information appears in the Arrangement list.





Using the Collections Tab on the Customer Account Inquiry form users can effectively identify, manage and perform collection actions against delinquent accounts. CIS Infinity allows staff members to quickly target accounts by the amount owing, service or days past the bill due date. Within the collections tab users can issue notices, send letters or schedule phone calls to overdue accounts. Users can also choose to generate field service orders to disconnect or reconnect services from the collections tab.



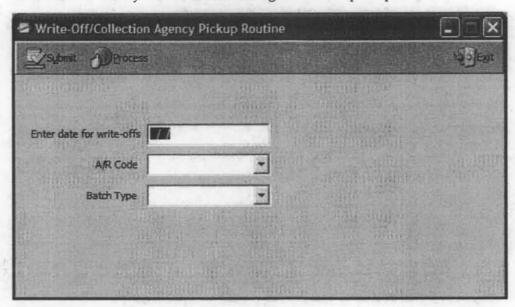
Credit Ratings

CIS Infinity tracks each individual's credit rating using a credit point system. The credit rating system is easily configured and can be tied to transaction codes such as NSF checks or collection actions such as notices or disconnections. A user can also manually adjust the credit rating if the user feels the customer's credit rating should be increased or decreased.



Automatic Write Offs

Additional features within the collections module include the ability to write-off accounts, add bankruptcies and send overdue accounts to a collections agency for follow-up. Once the parameters for your local business practices have been configured within CIS Infinity, users can automatically write-off accounts using the write-off pick-up routine.

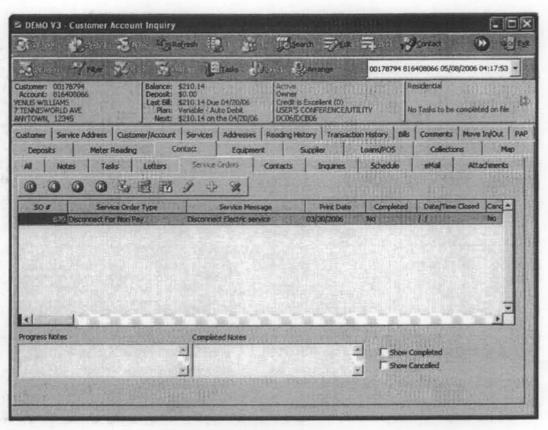


Service Order automation

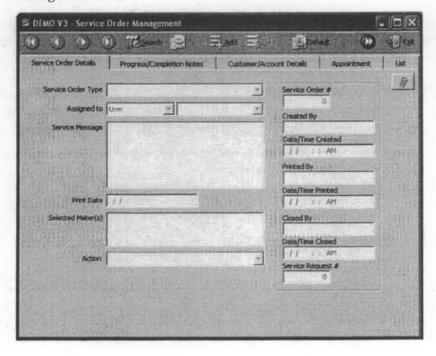
Managing service orders is a key part of any utilities business. CIS Infinity provides the functionality to make this happen smoothly and effectively. It can initiate work, track work through a pending order process, update orders, and view historical orders; both service and meter based.

More importantly, the service order workflow can be fully **automated** – CIS Infinity can automatically issue a service order in response to a variety of events, including billing exceptions, collections activity, and so on.

Information about service orders related to an account is available for viewing and editing in the Service Orders tab. The user responsible for creating the order is tracked along with the name of the user to whom the order has been assigned.

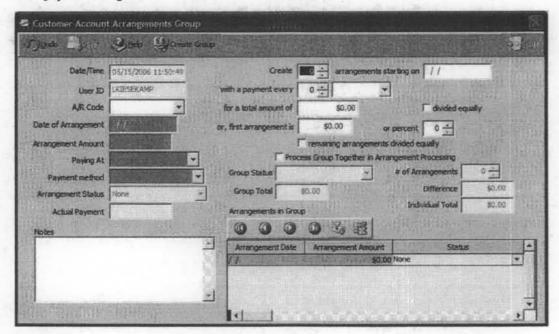


Also, all service orders can be tracked, organized, and edited using the Service Order Management screen.



Payment Arrangements

CIS Infinity allows payment arrangements to be tracked on an account. Arrangements can be made for a single payment for the overdue amount or for multiple payment arrangements until the total arrears owing is paid off. Users are notified if any payment arrangements are broken so you can take the appropriate action if a customer fails to meet their payment obligations.



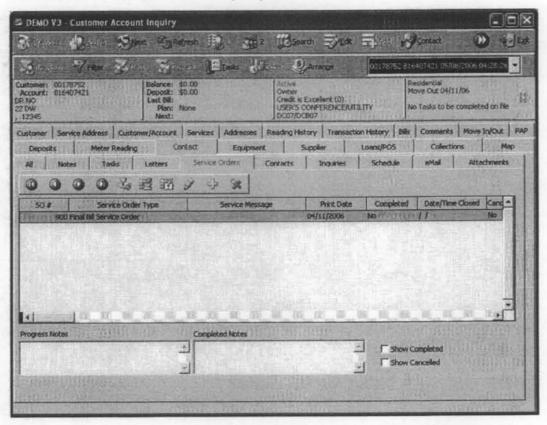
Exemptions

The Collections module within CIS Infinity allows a user to exempt specific customers from collections actions. Customers can be made exempt from all collection action or be exempt from specific collection actions such as notices, disconnects or penalty charges.



Customer Contact

When customers call you, they expect their Customer Service Representative to have knowledge of all correspondence with that customer. The **Contact** tab is available on the Main Customer Service Form. Not only is there a record of historical transactions, but newsletters, notes, and service orders may be generated and tracked.



The comprehensive, integrated Contact Management system in CIS Infinity allows users to assign tasks and automatically generate them for many aspects of their business, creating a tool that supervisors and managers can use to manage workflow. All contact with a customer is available from one tab including notes, tasks, payment arrangements, letters, service orders, notice history, contact history and inquiry history.

CIS Infinity supports and tracks all correspondence. It automatically imports customer information into your word processing program for the creation of individual letters or for the generation of form letters.

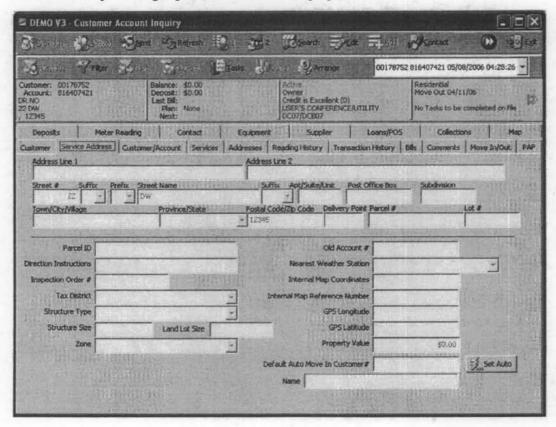
The software allows you to identify and track customers independent of the service address. New move-ins, or move-outs can be identified and procedures are in place to then process these accounts. Detailed account summaries and account listings with drill down capabilities are available within the system. Each account may be defined as a member of a special group. These groups may be billed independently.



Service Address Management

CIS Infinity separates the customer account number from the service address number. Combined they represent the complete customer account. Separated they allow information about the service address to be maintained with the building or premises.

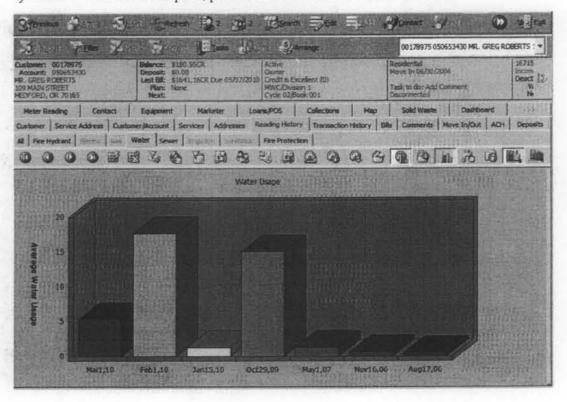
With the automated contact management system in CIS Infinity, the move in/move out process is simplified. With the completion of a move in/move out entry on CIS Infinity, the meter reading is automatically scheduled, the necessary service orders are generated and all information for processing deposits and final bills are prepared.





Usage Management

CIS Infinity is used to effectively manage usage. At each of these sites an interface has been developed with the meter reading systems including hand-held, automated meter reading systems, and time-of-use systems. CIS Infinity has the ability to capture and track consumption-based usage based on the passage of time as well as measured flow. The system also validates consumption, processes reads and tracks unauthorized use.



Security

Security setup is similar to Microsoft NT security. System administrators create user identifications and users can belong to one or more groups. Objects in CIS Infinity can be restricted by user identification, or by group.

The first level of security in CIS Infinity is the ability to completely configure the user's menus and items on menus. If you do not wish to give a user access to a form you can simply not place the form on the user's menu.

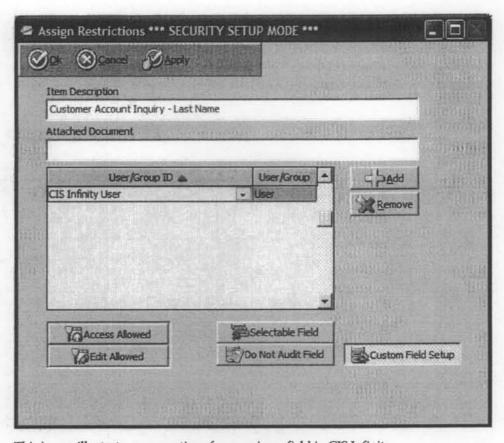
System Administrators can pre-define a series of menus that are common, and those menus can be placed on the users menu. Each user's menu does not be to be defined from scratch and could simply have the pre-defined menus on them.

Each item that can be added to the users menu comes with a pre-defined description from Advanced, these descriptions can be customized by the System Administrators to suit your needs and terminology.

Security in CIS Infinity is object based rather than field and table based. This allows system administrators to secure not only secure fields, but objects such as buttons and pick lists. You can secure anything you see on the forms of CIS Infinity rather than just restrict users' access to fields or tables. Objects that can be restricted in CIS Infinity Include:

- Fields
- Forms
- Pick lists (entire pick list or selected items in the pick lists)
- Accounts (you can restrict access to particular customers' accounts by user id or by group)
- Batch of Cash (only cashier can use their own batch)
- Billing Batch
- Buttons on forms (restrict users or groups from functions on forms)

Restrictions on objects include read only, visible to user, deletion, addition and more. Security options differ based on the type of object. For example, entire forms can be made read-only or you can restrict the user to editing current information but they cannot add or delete.



This image illustrates some options for securing a field in CIS Infinity:

- Access Allowed Choosing this will restricted the user from seeing or editing the
 field. This can be used to remove fields from the form that you do not utilize as well
 as restrict access to fields from users who do not need access, for example, Bank
 Account number.
- Edit Allowed This will leave the field visible to the user, but restrict editing the value in the field.
- Selectable Field Since CIS Infinity contains ad hoc query and ad hoc reporting capability, the Selectable field restriction prevents users from being able to use the field in an ad hoc query or ad hoc report.

Auditing

Aside from restrictions, Security also provides the System Administrator access to place auditing on any data field in CIS Infinity. Toggling the Audit/Do Not Audit Field button will enable tracking of the changes, additions and deletions of this field at the middle data access layer of CIS Infinity. Once auditing is placed on a field, end users can also view modifications to these fields



Search

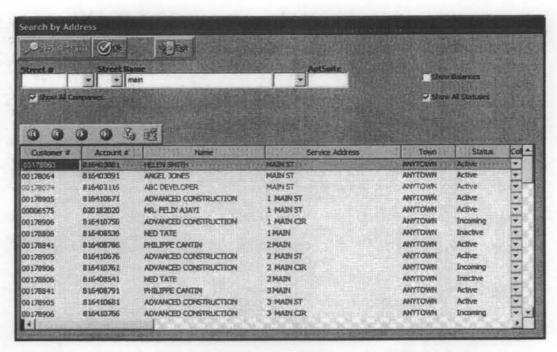
The following outlines the four methods that can be used to query and report on the data contained within CIS Infinity.

Simple Searches

Searching is available from the main customer service form and is the simplest method of querying the database to locate information related to customers. The standard or "canned" methods of searching in the system include the following:

- Address
- Name
- Meter Number
- Phone Number
- Social Security Number
- Driver's License Number
- Taxroll Number
- Bill Number
- Equipment Number
- Payment / Adjustment Amount
- Service Order Number

These simple search options allow a user to search on the field above and use a variable in the field to represent the search criteria. When the search is submitted, the matching accounts are displayed in a browse window displayed below:



Based on the search submitted, the information will include specific fields and always includes the following:

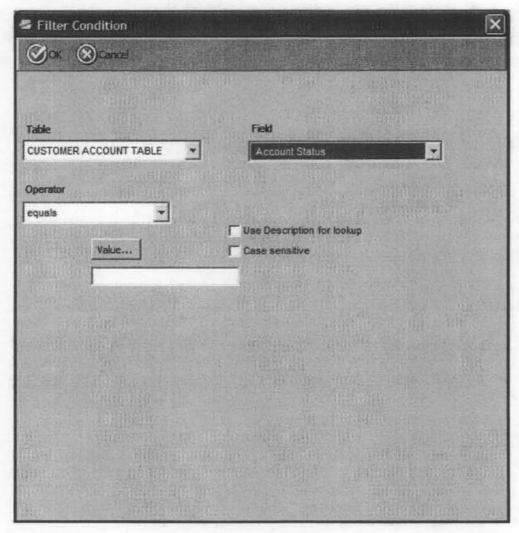
- Customer Number
- Account Number
- Name
- Service Address
- City
- Account Status
- Collection Status
- Company
- Division

If a search by meter was initiated, the meter number would also display in the grid. Alternately, if a search by social security number was initiated, the social security number would be displayed. You will note that there is a Spreadsheet button on the bottom of the form. Once selected, the system will export the data to a spreadsheet in Excel. Our clients use this method of "reporting" to run simple searches and print lists, through the spreadsheet option, for their use.

Advanced Searches

In addition to the "canned" searches, we have incorporated an "Advanced Search" method that allows users to query more than one table of information at a time and place conditions on the searches. This option allows for a more complex query and makes available many

more fields. We have tried to design an intuitive interface for this purpose to make this functionality available to even the most basic user.



This screen is presented to users when the Advanced Search is initiated. The user first chooses a data environment or "table" to search in. The following tables are available to the user in Advanced Search:

- A/R Balance
- Account Service Multipliers
- Account Service Table
- Address Table
- Customer Account Comment Table
- Customer Account Deposit Table
- Customer Account Table



- Customer Credit Rating Table
- Customer ACH Set Up Table
- Customer Table
- Customer Account Address Table
- Customer Account Phone Table
- Deposit Balance Table
- Flat Rate / Equipment Table
- Meter Table
- Service Address Table

Within each table, specific fields are available and once a user chooses a table, they are required to select the field that they wish to query and an operator (equals / does not equal / less than / greater than etc.) to use while searching. You will note above that they can then either type in a variable or may select the "variable" button which will list all of the variables in the database within the table selected.

After this initial search criteria is saved, the user may add additional criteria from the same table or from another table listed above. They join the criteria lines with an operator (and, or etc.) that will dynamically change the searching method based on the selection.

Once this Advanced search is completed, the user submits the query and CIS Infinity will return all records from the database that matches the search criteria. Again, the user is given the option to use the spreadsheet output option at this point. The fields that were included in the Advanced search are added to the grid of information presented to the user and are also exported to the spreadsheet.

Advanced Filters

At times, our clients would like to use the data from their queries to prepare letters, service orders or to add a note, send an email or generate user tasks. Advanced has incorporated a Filter option in CIS Infinity to assist users with this requirements.

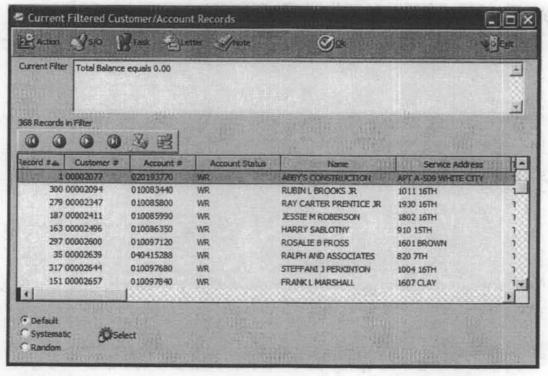
The Advanced Filter function allows users to query the database using exactly the same method outlined above. The forms and options are identical to the Advanced Search function. When the filter is built and executed, the users system is "filtered" to the accounts that match the filter and they can move from account to account by selecting "next" or "previous" buttons on the tool bar.



In addition, the user can select the Current button. This option displays the current filter criteria, the accounts matching the search and several options to use the data – generate actions, service orders, tasks, letters, add a note to the account or add a bill message to the

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account to be displayed on the customer's next bill. Prior to generating these actions, the user also has the ability to perform a further filter of accounts – systematic or randomly selecting accounts to use. This option is helpful for marketing purposes.



Advanced Reporting

Advanced has created, in consultation with our customers, a number of "canned" reports that are useful for generating statistical or financial reports each day, week, month or year. These include block summaries, general ledger and transaction reports for accounting and balancing purposes, customer listings and equipment and metering reports for statistical purposes. There are over 200 standard reports, and virtually unlimited ad-hoc reports.

These reports are run from a reporting menu by simply selecting the report to run and choosing a date or range of information. These are pre-formatted reports. Alternately, the user can choose to modify a canned report to make it match specific requirements that they may have. This includes copying an existing report and then adding additional information, changing the look of the report (font, color, orientation) or changing the filters, summaries etc. A user can also attach their own Crystal Report format – this allows you to "dump" data from a regular report and then perform other functions with your own customized reports. Reports can also be "packaged" or copied and then "unpackaged". This allows our customers to share reports or allows you to copy a report from test into production.

Crystal Reports v. XI is embedded in CIS Infinity. Advanced recommends that a few key "report-generating" users purchase Crystal Reports to allow them to format reports for presentation purposes.

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Rates

CIS Infinity's complex rate engine uses extensive normalization of the rate structure to allow for virtually unlimited rate configuration.

Some of the main features of the rate engine:

- Unlimited rates
- Unlimited rate elements (rate details)
- Up to 5 rates attached to a service on an account
- · Rates can be attached to meters
- Rates can be customized by customer for every account they have
- Rates can be customized for a specific service address
- Rates can be customized for a customer at a service address

On a single rate these elements can support:

- Basic or flat charges
- Block or Step based on usage
- Surcharges or usage-based charges

Other rate elements:

- Caps or floors for complex customer-specific contract terms
- Aggregation and consolidation of rates, usages and prices indexes
- Utilization of time zone calculation when rates and usages exist in different time zones
- Billing adjustment elements used for use from complex tax calculation or city council mandates.
- Minimum bill elements used in the calculation of minimum bills for customers

The unique design of the CIS Infinity rate engine gives the utility complete control over the rate design and model. The fact that no hard coding of rate elements or rate configuration is used in the design of the rate engine gives the rate engine endless possibilities in dealing with both straightforward and complex rates.

The rate engine in CIS Infinity allows users to attached "Microsoft Excel" formulas to any rate element or combination of rate elements. This adds much more to the already flexible rate engine by allowing for special rate cases to be handled by embedding formulas into rates. The rate formula design allows users to utilize any field in CIS Infinity, any field that exists during bill calculation, any mathematical function, as well as SQL statements. Formulas can be nested within other formulas for even greater control of very complex situations.

Proration rules in CIS Infinity's rate engine follow the same flexible nature of the rate design. Due to the fact that pro-ration rules can be different from utility to utility or from state to

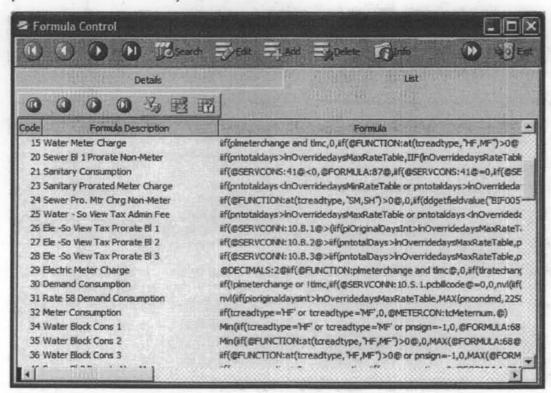
state, CIS Infinity puts the rules of pro-ration in the hands of the utility. Pro-ration can be handled at the service level right down to the rate element level.

Unlike other CIS vendors, Advanced Utility Systems integrates our powerful rate engine directly into CIS Infinity.

The benefits of the integration of a complex billing engine into CIS Infinity are:

- Users have the same access to complex data as they do straight forward data
- Complex customers and regular customers can be billed using the same system of billing and can exist together in the same billing cycle.
- No need to transfer data from one system to another
- Month end reporting, management reporting and other reporting that requires all information together can be done with one system and not require the manual consolidation of data later.
- Ease of use while being able to handle virtually any complex billing situation billing a regular residential customers is the same as billing complex customers as the setup is done once and the billing process is the same regardless of the type of customer.

Under the rate elements screen the user can attach a formula to the rate element. At the point of calculation CIS Infinity will call the formula.



In this case the formula attached to the rate element called another formula, and thus is nested. Items surrounded in 'at' (@) symbols refer to system variables. In the case circled



above formula 11 calls formula 10. Users can nest all of the calculations into one formula although it is easier to segment the formulas so there is easier formula maintenance. Although this example uses a complex electric rate, the same technology can be used for the more complex rates emerging in the water industry including conservation rates.

Advanced has many clients that bill either single or multi services with CIS Infinity. Services include Electricity (metered, flat rate, Demand, TOU and interval customers), Water (metered – single, multi-flow, and flat rate), Sewer (metered and flat rate), Solid Waste, Gas, Propane, Concrete, Cable and Fiber. They also bill for additional services such as Reclaimed Water, Drainage and Steam.

Services are defined within CIS Infinity and then rates are attached to the services. Every service will have its own unique rates defined within the rate engine.

2. Describe the product direction for the company, including time frames.

Advanced's 5-year product roadmap includes numerous major functionality and technology enhancements. The most significant enhancements Advanced is either actively engaged in or is planning are the following:

Client Product Enhancements

 In 2013, Advanced is undertaking a number of significant enhancements for both new and existing clients. Among those modifications are enhancements to the solid waste functionality, capital credit and membership handling, password handling enhancements, increased functionality for our multi-company clients, and improvements to our real-time refund check interfacing framework.

CIS Infinity Version 4

As a software vendor dedicated to the CIS market, Advanced is always pursuing development of its next major release. To this end, development is currently under way on the next version of our flagship customer information and billing product - CIS Infinity. Version 4 will move CIS Infinity to the next level of CIS solutions, and due to its robust and open-ended architecture, will allow Advanced to undertake the significant enhancements envisioned in our product roadmap.

- Built using the Microsoft .NET 4.0 using C#.NET as the core development language, Version 4 of CIS Infinity will provide our clients with significant functional and technological benefits, including:
 - Enhanced customization options for the end-user, including the ability to define personal views ("MyView") of the key Customer/Account Inquiry screen, hide/rename any data elements or labels
 - Ability to design the layout of any form in CIS Infinity by grouping/moving/hiding visual elements
 - Providing unlimited user-definable fields
 - Robust and versatile business object framework to support SOA API
 - Enhanced error and exception handling and messaging
 - Optimizations to the data access layer



- Enhancements to the install and updating process
- Enhanced internal data query and selection tools
- Support for user-configurable data archiving and purging capabilities, including the ability to query/report on archived data
- CIS Infinity Version 4 will include the release of a browser user interface for all enduser facing screens in CIS Infinity, starting with the most commonly used forms
 such as the Customer/Account Inquiry Form and Cash/Billing/Collections
 processing forms. This browser user interface will provide the same robust and rich
 user interface options available in our graphical user interface.
- CIS Infinity Version 4 will include a well-documented and standardized Service
 Oriented Architecture API utilizing Web services that will be published and
 available for external integration. All core business logic available in CIS Infinity e.g. from processing a meter change at an account to retrieving complex billing data
 will be accessible in the published API for external access.

General availability of CIS Infinity, Version 4 will be during the latter half of 2013, with a plan to upgrade existing customers first (~25%) before releasing it to new customers.

3. Describe unique aspects of the Vendor's solution in the marketplace.

The following are aspects of our proposed solution that we believe make Advanced the right long term partner for the City.

Comprehensive "Commercial- of-the Shelf" Functionality

The proposed solution has unmatched functionality available standard which means the City can meet its needs and more without extensive customization or the need for external spreadsheets to complete core business process functions.

Advanced's CIS Infinity Customer Management solution has been implemented at over 120 public and private utility organizations across North America, the Caribbean and Central America. It is powerful, feature-rich, utility specific, flexible software. Along with the core modules of cash processing, billing, reporting and collections that support revenue management activities, it includes many features (contact management, alerts, bill formatting) designed to allow the City to provide fast, reliable service to its customers and enhance customer and employee satisfaction.

Integration with industry-leading applications

Advanced has extensive experience interfacing and integrating with many other third party applications (e.g. Geographical Information Systems (e.g. ESRI), Interactive Voice Response, etc.) which reduces initial deployment and integration time and costs.

Financial Stability and Growth with our parent company Constellation Software Inc.

Our parent company, Constellation Software Inc. (CSI), is a financially successful conglomerate of vertical market software (VMS) companies, serving over 30,000 customers worldwide, each focused upon dominating its respective market niche. There are currently seven companies in the portfolio.



Recognized Implementation Excellence

Advanced strongly believes that high quality providers must not only take a role of a software provider, but one who implements the software, converts existing data, and provides training, documentation, as well as ongoing maintenance and support. This is demonstrated by our strong customer base, which includes many customers in Florida. Advanced and our partners will provide services for the proposed solution that includes Implementation, Training, Conversion, and Support & Upgrades. Our skilled services staff will work with your project team to enhance current business practices, develop methods for streamlining operations, and ensuring that all your staff is well-trained and able to exploit the power of the proposed solution.

A Business Model based on Long-Term Relationships with our Customers

Advanced's business model is premised on the basis of maintaining long-term relationships with our customers. This focus on the customer flows throughout every aspect of our company – from sales to services to development to support.

The Advanced Advantage - Overall Benefits for the City of Columbia

In summary, we believe that Advanced's proposed solution is the right solution for the City as we will provide:

- A fully featured, functional and configurable solution, one that is constantly
 evolving to meet your business needs without significant customization.
- A single point of accountability through a solution designed, implemented and supported by Advanced.
- A proven implementation methodology that ensures a successful installation.
- Ongoing support model that promotes a long-lasting relationship.
- Financial strength and stability to ensure the long-term viability of our partnership

4. Describe components of the solution that are industry standards versus being proprietary to the Vendor.

With regards to software technology, our solutions are comprised of industry-standard components. With regard to functionality the solutions are designed to support best management practices, regulatory requirements, widely adopted protocols, etc. as communicated to us through our customers, business partners and industry associations to which we maintains memberships.

5. Describe your portal strategy.

With Infinity.Link, our proposed utility customer self-service application, the City's customers will be able to access and update utility account related information (e.g. consumption, billing, payment history, e-bills) via a browser interface.