Albuquerque Bernalillo County
Water Utility Authority

Meeting Date: November 28, 2012
Staff Contact: Chris Framel, Chief Information Officer

TITLE: **C-12-27 – Approving Sole Source Agreement with activeG, LLC. For Maximo/Geographic Information Systems (GIS) Implementation Services**

ACTION: **Recommend Approval**

SUMMARY:
The Water Authority's Maximo software currently uses MaxGIS for assigning and mapping work orders through Maximo. MaxGIS was written and provided to the Water Authority by EMA, Inc. several years ago as part of the Maximo 4.1 implementation. Over the past several years, IBM purchased the Maximo software and began developing a product similar to MaxGIS called Maximo Spatial.

Since the introduction of Maximo Spatial, the development of additional functionality in MaxGIS has stopped and it is now supported on a limited basis. IBM has improved Maximo Spatial to where it now is a viable product; however, it does not work on the current version of Maximo the Water Authority uses. There are no plans to upgrade to the current version until late FY14 or early FY15.

Both MaxGIS and Maximo Spatial use the GIS base layer maintained and provided by the City. The City is planning to upgrade its GIS software in the spring of 2013. When completed, MaxGIS no longer work with Maximo.

The Water Authority researched alternatives and found activeG to be the only solution in the short-term. The product can be installed quickly and in time to ensure that no loss of GIS functionality in Maximo when the City upgrades their system.

FISCAL IMPACT:
The cost of this agreement is approximately $111,000. The Water Authority has budgeted the capital resources to cover this agreement.

Memo

To: Mark S, Sanchez, Executive Director

From: Chris Framel, Chief Information Officer

CC: Stanley Allred, Chief Financial Officer

Date: 11/19/2012

Re: Sole Source

Our Maximo application currently uses MaxGIS for assigning and mapping workorders through Maximo. MaxGIS was written and provided to the Water Authority by EMA several years ago as part of the Maximo 4.1 implementation. When we upgraded to our current version, we continued to use MaxGIS as there was no alternative. Over the past several years, IBM purchased the Maximo software and began developing a product similar to MaxGIS called Maximo Spatial. When introduced, we purchased 50 licenses of this software but the product did not provide the same functionality as MaxGIS.
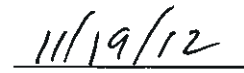
Since the introduction of Maximo Spatial, the development of MaxGIS has basically come to a standstill and is now supported on a limited basis. I have a letter from EMA stating they will no longer provide upgrades and only limited support. IBM has improved Maximo Spatial to where it now is a viable product; however, it works on a later version of Maximo and we have no plans to upgrade to that version until late FY14 or early FY15.

Both MaxGIS and Maximo Spatial use the GIS base layer maintained and provided by the City. The City is planning to upgrade its GIS software, which when complete, will result in MaxGIS no longer working with Maximo. The timing of this upgrade is spring of 2013.

Taking everything into account, we researched alternatives and found activeG to be our only solution in the short-term. We can install this product quickly and hopefully in time to ensure we have no loss of GIS functionality in Maximo when the City upgrades their system. Due to the recent conversions of Reclamation and Collections into Maximo, I do not want to do a major upgrade of Maximo.

I ask for your approval as a sole source purchase so that we may complete this implementation before the City upgrades their GIS software.

Approved: _____   11/19/12
Mark S, Sanchez, Executive Director   Date

AGREEMENT
BETWEEN THE
ALBUQUERQUE BERNALILLO COUNTY WATER UTILITY AUTHORITY
AND
ACTIVEG, LLC.

THIS AGREEMENT is made and entered into on the date of the last signature entered below by and between the Albuquerque Bernalillo County Water Utility Authority, a New Mexico political subdivision, P.O. Box 568, Albuquerque, New Mexico 87103-0568 (hereinafter referred to as the "Water Authority") and ActiveG, LLC, a Arizona corporation located at P.O. Box 957, Mesa, Arizona 85211 (hereinafter referred to as the "Contractor").

RECITALS

WHEREAS, the Water Authority requires software to replace its unsupported Maximo GIS tracking system; and

WHEREAS, the Contractor provides such software; and

WHEREAS, the Water Authority desires to procure licenses and engage the Contractor to perform implementation services on such software; and

WHEREAS, the Contractor is able to provide such services at a cost and in a timeframe in accordance with Water Authority goals and objectives.

NOW THEREFORE, in consideration of the premises and mutual obligations herein, the parties hereto do mutually agree as follows:

1. **Scope of Services:** The Contractor shall perform the following services (hereinafter referred to as the "Services") in a satisfactory and proper manner, as determined by the Water Authority:

    A. Provide licenses and perform the implementation services as identified in Exhibit A Scope of Work.

2. **Time of Performance:** Services of the Contractor shall commence on December 1, 2012, and shall be undertaken and completed in such sequence as to assure their expeditious completion in light of the purposes of this Agreement; provided, however, that in any event, all of the Services required hereunder shall be completed by November 30, 2013.

3. **Compensation and Method of Payment:**

    A. **Compensation.** For performing the Services specified in Section 1 hereof, the Water Authority agrees to pay the Contractor up to the amount of **One Hundred Eleven Thousand and 00/100 Dollars ($111,000.00)**, which amount includes any applicable gross receipts taxes and which amount shall constitute full and complete

compensation for the Contractor's Services under this Agreement, including all expenditures made and expenses incurred by the Contractor in performing such Services.

B. **Method of Payment for Services.** Payment for Services shall be made based on the payment schedule attached as Exhibit A and incorporated herein, which rates include any applicable gross receipts taxes. Payments shall be made to the Contractor monthly for Services provided during the previous month. Payments shall be made upon receipt by the Water Authority of properly documented requisitions for payment as determined by the budgetary and fiscal guidelines of the Water Authority and on the condition that the Contractor has accomplished the Services to the satisfaction of the Water Authority.

C. **Appropriations.** Notwithstanding any other provisions in this Agreement, the terms of this Agreement are contingent upon the Water Authority Board making the appropriations necessary for the performance of this Agreement. If sufficient appropriations and authorization are not made by the Water Authority Board, this Agreement may be terminated at the end of the Water Authority's then current fiscal year upon written notice given by the Water Authority to the Contractor. Such event shall not constitute an event of default. All payment obligations of the Water Authority and all of its interest in this Agreement will cease upon the date of termination. The Water Authority's decision as to whether sufficient appropriations are available shall be accepted by the Contractor and shall be final.

4. **Independent Contractor:** Neither the Contractor nor its employees are considered to be employees of the Water Authority for any purpose whatsoever. The Contractor is considered as an independent contractor at all times in the performance of the Services described in Section 1. The Contractor further agrees that neither it nor its employees are entitled to any benefits from the Water Authority under the provisions of the Workers' Compensation Act of the State of New Mexico, or to any of the benefits granted to employees of the ater Authority under the provisions of the Merit System Ordinance as now enacted or hereafter amended.

5. **Personnel:**

A. The Contractor represents that it has, or will secure at its own expense, all personnel required in performing all of the Services required under this Agreement. Such personnel shall not be employees of or have any contractual relationship with the Water Authority.

B. All the Services required hereunder will be performed by the Contractor or under its supervision and all personnel engaged in the work shall be fully qualified and shall be authorized or permitted under state and local law to perform such Services.

C. None of the work or Services covered by this Agreement shall be subcontracted without the prior written approval of the Water Authority. Any work or Services

subcontracted hereunder shall be specified by written contract or Agreement and shall be subject to each provision of the Agreement.

6. **Indemnity:** The Contractor agrees to defend, indemnify and hold harmless the Water Authority and its officials, agents and employees from and against any and all claims, actions, suits or proceeding of any kind brought against said parties for or on account of any matter arising out of or resulting from the Services performed by the Contractor under this Agreement. The indemnity required hereunder shall not be limited by reason of the specification of any particular insurance coverage in this Agreement.

7. **Insurance:** The Contractor shall procure and maintain at its expense until final payment by the Water Authority for services covered by this Agreement, insurance in the kinds and amounts hereinafter provided with insurance companies authorized to do business in the State of New Mexico, covering all operations under this Agreement, whether performed by it or its agents. Before commencing the Services and on the renewal of all coverages, the Contractor shall furnish the Water Authority a certificate or certificates in form satisfactory to the Water Authority showing that it has complied with this Section. All certificates of insurance shall provide that thirty (30) days written notice be given to the Risk Manager, Department of Finance and Administrative Services, City of Albuquerque, P.O. Box 470, Albuquerque, New Mexico, 87103, before a policy is canceled, materially changed, or not renewed. Various types of required insurance may be written in one or more policies. With respect to all coverages required other than workers' compensation, the Water Authority shall be named an additional insured. All coverages afforded shall be primary with respect to operations provided. Kinds and amounts of insurance required are as follows:

A. **Commercial General Liability Insurance.** A commercial general liability insurance policy with combined limits of liability for bodily injury or property damage as follows:

$1,000,000	Per Occurrence
$1,000,000	Policy Aggregate
$1,000,000	Products Liability/Completed Operations
$1,000,000	Personal and Advertising Injury
$ 50,000	Fire - Legal
$ 5,000	Medical Payments

Said policy of insurance must include coverage for all operations performed for the Authority by the Contractor and contractual liability coverage shall specifically insure the hold harmless provisions of this Agreement.

B. **Automobile Liability Insurance.** An automobile liability insurance policy with liability limits in amounts not less than $1,000,000 combined single limit of liability for bodily injury, including death, and property damage in any one occurrence. Said policy of insurance must include coverage for the use of all owned, non-owned, hired automobiles, vehicles and other equipment, both on and off work.

C. **Workers' Compensation Insurance.** Workers' compensation insurance for its employees in accordance with the provisions of the Workers' Compensation Act of the State of New Mexico.

D. **Increased Limits.** If, during the term of this Agreement, the Water Authority requires the Contractor to increase maximum limits of any insurance required herein, an appropriate adjustment in the Contractor's compensation will be made.

8. **Discrimination Prohibited:** In performing the Services required hereunder, the Contractor shall not discriminate against any person on the basis of race, color, religion, gender, sexual preference, sexual orientation, national origin or ancestry, age, physical handicap, or disability as defined in the Americans With Disabilities Act of 1990, as now enacted or hereafter amended.

9. **ADA Compliance:** In performing the Services required hereunder, the Contractor agrees to meet all the requirements of the Americans With Disabilities Act of 1990, and all applicable rules and regulations (the "ADA"), which are imposed directly on the Contractor or which would be imposed on the Water Authority as a public entity. The Contractor agrees to be responsible for knowing all applicable requirements of the ADA and to defend, indemnify and hold harmless the Water Authority, its officials, agents and employees from and against any and all claims, actions, suits or proceedings of any kind brought against said parties as a result of any acts or omissions of the Contractor or its agents in violation of the ADA.

10. **Reports and Information:** At such times and in such forms as the Water Authority may require, there shall be furnished to the Water Authority such statements, records, reports, data and information, as the Water Authority may request pertaining to matters covered by this Agreement. Unless authorized by the Water Authority, the Contractor will not release any information concerning the work product including any reports or other documents prepared pursuant to this Agreement until the final product is submitted to the Water Authority.

11. **Establishment and Maintenance of Records:** Records shall be maintained by the Contractor in accordance with applicable law and requirements prescribed by the Water Authority with respect to all matters covered by this Agreement. Except as otherwise authorized by the Water Authority, such records shall be maintained for a period of three (3) years after receipt of final payment under this Agreement.

12. **Audits and Inspections:** At any time during normal business hours and as often as the Water Authority may deem necessary, there shall be made available to the Water Authority for examination all of the Contractor's records with respect to all matters covered by this Agreement. The Contractor shall permit the Water Authority to audit, examine, and make excerpts or transcripts from such records, and to make audits of all contracts, invoices, materials, payrolls, records of personnel, conditions of employment, and other data relating to all matters covered by this Agreement.

13. **Conflict of Interest; Governmental Conduct Act:** The Contractor warrants that it presently has no interest and shall not acquire any interest, direct or indirect, which would conflict in any manner or degree with the performance or services required under this Agreement. The Contractor certifies that the requirements of the Governmental Conduct Act, Sections 10-16-1 through 10-16-18, NMSA 1978, regarding contracting with a current or former "public officer or employee" have been followed.

14. **Publication, Reproduction and Use of Material:** No material produced in whole or in part under this Agreement shall be subject to copyright in the United States or in any other country. The Water Authority shall have unrestricted authority to publish, disclose, distribute and otherwise use, in whole or in part, any reports, data or other materials prepared under this Agreement.

15. **Compliance with Laws:** In performing the Services required herein, the Contractor shall comply with all applicable laws, ordinances, and codes of the Federal, State and local governments.

16. **Changes:** The Water Authority may, from time to time, request changes in the Services to be performed hereunder. Such changes, including any increase or decrease in the amount of the Contractor's compensation, which are mutually agreed upon by and between the Water Authority and the Contractor, shall be incorporated in written amendments to this Agreement.

17. **Assignability:** The Contractor shall not assign any interest in this Agreement and shall not transfer any interest in this Agreement (whether by assignment or novation), without the prior written consent of the Water Authority therein.

18. **Termination for Cause:** If, through any cause, the Contractor shall fail to fulfill in a timely and proper manner its obligations under this Agreement or if the Contractor shall violate any of the covenants, agreements, or stipulations of this Agreement, the Water Authority shall thereupon have the right to terminate this Agreement by giving written notice to the Contractor of such termination and specifying the effective date thereof at least five (5) days before the effective date of such termination. In such event, all finished or unfinished documents, data, maps, studies, surveys, drawings, models, photographs, and reports prepared by the Contractor under this Agreement shall, at the option of the Water Authority, become its property. The Contractor shall be entitled to receive just and equitable compensation for any work satisfactorily completed hereunder.

Notwithstanding the above, the Contractor shall not be relieved of liability to the Water Authority for damages sustained by the Water Authority by virtue of any breach of this Agreement by the Contractor, and the Water Authority may withhold any payments to the Contractor for the purposes of set-off until such time as the exact amount of damages due the Water Authority from the Contractor is determined.

19. **Termination for Convenience of Water Authority:** The Water Authority may terminate this Agreement at any time without cause and for the convenience of the Water Authority by giving at least ten (10) days' notice in writing to the Contractor. If the Contractor is terminated by the Water Authority as provided herein, the Contractor will be paid an amount which bears the same ratio to the total compensation as the Services actually performed bear to the total Services of the Contractor covered by this Agreement, less payments of compensation previously made. If this Agreement is terminated due to the fault of the Contractor, the preceding Section hereof relative to termination shall apply.

20. **Construction and Severability:** If any part of this Agreement is held to be invalid or unenforceable, such holding will not affect the validity or enforceability of any other part of this Agreement so long as the remainder of the Agreement is reasonably capable of completion.

21. **Enforcement:** The Contractor agrees to pay to the Water Authority all costs and expenses including reasonable attorney's fees incurred by the Water Authority in exercising any of its rights or remedies in connection with the enforcement of this Agreement.

22. **Entire Agreement:** This Agreement contains the entire agreement of the parties and supersedes any and all other agreements or understandings, oral or written, whether previous to the execution hereof or contemporaneous herewith.

23. **Applicable Law:** This Agreement shall be governed by the construed and enforced in accordance with the laws of the State of New Mexico, and the laws, rules and regulations of the Albuquerque Bernalillo County Water Utility Authority.

24. **Approval Required:** This Agreement shall not become effective or binding until approved by the Water Authority's Executive Director.

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IN WITNESS WHEREOF, the Water Authority and the Contractor have executed this Agreement on the date of the last signature entered below.

ALBUQUERQUE BERNALILLO COUNTY WATER UTILITY AUTHORITY

Approved By:

_____
Mark S. Sanchez, Executive Director

Date: _____

Reviewed by:

_____
Charles W. Kolberg, General Counsel

Date: _____

CONTRACTOR: ACTIVEG, LLC.

By: _____

Print: _____

Title: _____

Date: _____

State Taxation and Revenue Department
Taxpayer Identification No.: _____

Federal Taxpayer Identification No.

_____

activeG, LLC
Statement of Work for
Albuquerque Bernalillo County Water Utility Authority
11/2/2012

The following is a statement of work provided by activeG, LLC to Albuquerque Bernalillo County Water Utility Authority (ABCWUA), for the implementation of activeG MapEngine™, spatial integration for Maximo.

The information provided in this document is confidential and is not to be used without written consent of activeG, LLC. It outlines a statement of work with assumptions for a Maximo/GIS integration project using MapEngine. The enclosed assumptions are based on emails, web casts, and discussions between ABCWUA (Michael Arellano, Dawn Alexander, and Al Candelaria) and activeG (Andy Stewart).

Prepared by:

Andy Stewart
activeG – Director, Business Development
andy.stewart@activeG.com
Mesa, Arizona, USA
1 (480) 610-0839

Implementation Scope

The scope of this proposal covers the implementation of activeG™ MapEngine™ for one production instance of Maximo, which includes installation of MapEngine in a development, test (optional), and production environment.

The implementation scope includes:

1. A multi-day, on-site workshop to determine requirements, data strategy.
2. Embedding ESRI ArcGIS map component into the activeG MapEngine.
3. Embedding MapEngine functionality and Map into the following applications:
   - Work Order Tracking
   - Service Request
   - Preventive Maintenance
   - Routes
   - Asset
   - Location
4. Adding Map Layers
   - Map in Maximo to display 20 Layers representing assets and/or locations, including the following categories: Water, Wastewater, Reclaimed Water
5. Synchronizing Data
   - Create/update assets and locations in Maximo from GIS database (one direction).
   - Converting Meters from locations to assets (TBD)
6. Implementing map functionality outlined in the Functionality section below.

Products to be Implemented

1. activeG™ MapEngine™ - embedded maps in Maximo GUI.

2. activeG™ AGIG™ Server Software – server side of MapEngine™.

3. activeG™ MEAdmin™ - synchronization software.

Functionality

The following features are included in the scope of functionality to be delivered for the installation:

1. All map-enabled Maximo applications:

   a. Provide an embedded map using ESRI ArcGIS Map Service.

   b. Map look and feel defined by the MXD published to ArcGIS Server.

   c. Floating MapEngine tools/windows (position preferences saved on a per-user basis).

   d. Zoom to the extent of all selected features.

   e. Named/saved user extents (user-specific).

   f. Zoom forwards and backwards through previous extents (like back and forward on a browser).

   g. Select / highlight Maximo Asset or Location on map.

   h. Set Maximo Asset or Location based on map selected item.

i. Search for map item using standard MapEngine search capabilities.

j. Legend layer symbology images auto-populated from ArcGIS map service (requires ArcGIS Server version 10+).

k. Map legend templates.

    i. Define which categories and layers are visible per each template.

    ii. Define default templates for all users.

    iii. Users can select a template that meets their needs (e.g., water vs. wastewater)

l. Feed MapEngine map extent to Google Maps (maps.google.com).

2. Service Requests

    a. Create Service Requests on point assets or locations.

3. Work Order Tracking

    a. Find and select related work orders (parent and all of the child WOs).

    b. Find and select all assets/locations of related WOs.

    c. Create Point Work Orders on point assets or locations.

    d. Point Work Order Display (*Service hours for this to be determined after a formal workshop.*)

        i. Create work orders Differentiate display of point work orders by work order status.

        ii. Differentiate display by work order type (i.e. Sub Work Type: Televised, etc.)

        iii. Ability to turn on and off work order layers by status, sub work type.

    e. Linear Work Orders (*Service hours for this to be determined after a formal workshop.*)

        i. Create work orders on individual linear assets.

        ii. Indicate start and end point of linear work order graphically.

        iii. Display work order beginning-to-ending area over linear Maximo assets

            1. Water pipes

            2. Waste Water pipes

            3. Reclamation pipes

    f. Map Query

        i. Find and select one or multiple work orders by user-defined parameters.

        ii. Find and select one or multiple locations/assets by user-defined parameters.

    g. Spatial selection of work orders to add to application List Tab's List table (Where Clause) for editing/updating.

4. Assets
   a. Select and locate assets on the map.

5. Locations
   a. Select and locate locations on the map.

6. Routes
   a. Create route stops spatially on the map.
   b. Reorder route stops using the map interface.
   c. Add additional route stops to an existing route.
   d. Delete route stops from an existing route.

7. Preventive Maintenance
   a. Create PM from the Map, using assets, locations.
   b. Map the assets/locations/route stops on the PM.

8. GIS-to-Maximo Data Synchronization via activeG MEAdmin tool.

Assumptions for Statement of Work

1. Service hours listed below are estimates only. Actual service hours may exceed given estimates.

2. The implementation is assumed to take place on an environment with the following technical configuration:

    a. GIS

        i. ArcGIS Server 9.3.x

        ii. ArcSDE 9.3.x

    b. Maximo

        i. Maximo version 6.2.5

        ii. All implementations in the scope of this proposal will be done without Maximo Linear product.

        iii. ABCWUA will provide the JDBC driver for MapEngine's connection to the Maximo database hosted on Oracle.

3. There will be one central ArcSDE database that will feed GIS data to Maximo for this implementation.

4. There will be one common Maximo production instance that will host this implementation. That one instance will have one SITE and one ORG, under which all work will be done.

5. All data for each asset and location will be unique for this and future implementations.

6. The visualization of the GIS data inside Maximo will be 2D ESRI ArcGIS Server Maps, delivered as an ArcGIS map service to be provided by the client.

7. A maximum of 20 GIS layers will be loaded as unique Asset or Locations, into the Maximo hierarchy. Loading of additional GIS layers will require additional service time and may delay the implementation.

8. The proposal does not include any GIS data conversion. It assumes that all GIS data is available in ArcSDE, with unique identifiers corresponding to the Maximo location/asset numbers on all GIS objects. Sufficient attribution must be on the GIS data layers to place each item correctly in the Maximo location/asset hierarchy and fill-in the associated the asset class information.

9. ABCWUA's current Maximo hierarchy will remain intact for the implementation, unless testing reveals the need to make changes. In that case, additional service hours not included in this proposal will be required.

10. The proposal assumes a maximum of three test data loads between GIS and Maximo. Additional data loads, which typically come from a change in the Location/Asset Hierarchy or change in GIS datasets, will require additional service time not included in this proposal.

11. All work performed by activeG will be done remotely at the activeG offices. A configured Maximo development environment with VPN access and remote terminal services shall be provided by the client for activeG's portion of the implementation.

12. activeG will do the initial install and configuration work in a Maximo development environment. activeG will assist ABCWUA in migrating this solution into a Maximo test environment, then assist ABCWUA in migrating the final solution into a Maximo production environment.

13. Project meetings and team interaction will be conducted by web teleconference tools, such as GoToMeeting™.

14. The proposal assumes the map will be placed in the Maximo applications listed in the Implementation Scope section, with map lookup by: location code, asset code, and any attribution which ties to a GIS graphic.

15. Enabling the integration between MapEngine and TRM RulesManager™ is included in the proposal. Development hours for the creation of any ABCWUA-specific RulesManager rules/functionality are not included.

16. **Service time to implement linear asset management is not included in the proposal.** These additional functions, while available in the provided software, cannot be quoted without a detailed discussion with the client concerning the GIS data and specific business requirements.

17. The proposal does not include interfaces to any other systems (financial, utility billing, TV video, pavement management, network tracing, ArcFM Designer, etc.). The exception to this is "alias" searching against any database table, inside or outside of Maximo, which has keys linking to GIS information.

18. Network Tracing is not provided out-of-the-box. Detailed discussions client will need to occur before a cost estimate can be provided.

19. Training will be in train-the-trainer format (2 admin and/or end-user types).

20. One/two on-site visits in the initial phase of project as needed.

21. Travel will be billed at cost.

22. The map use count is determined by the number of client user licenses purchased by the customer.

23. This statement of work valid for 45 days.

24. Prices do not include taxes, export/import fees, county/national/state/local licenses, or database/software licenses (database drivers, ODBC drivers, Oracle Spatial licenses, ESRI software/data licenses, ArcSDE licenses, etc.)

Implementation steps

1. Workshop on GIS-to-Maximo Data Synchronization methodology, Linear WOs, and WO Legend.

2. Establish VPN and remote desktop access to Maximo application server and Maximo database server.

3. Install activeG MapEngine software on Maximo application server.

4. Signoff on the Maximo location/asset hierarchy from GIS data with the client.

5. Configure activeG MEAdmin application to load GIS data into test database.

6. Perform one-time data sync from GIS to Maximo (needs to be done once each for dev, test and prod).

7. Load GIS data into development database.

8. Configure a tab(s) on the Maximo applications with a GIS map (see Implementation Scope) and appropriate interaction for selecting locations/assets by the map.

9. Assist in testing the application, as well as provide a training document with client specific screen shots.

10. Train the Maximo admin and/or DBA on data synchronization.

11. Train the trainer on the use of the map on the Maximo web page.

12. Assist/train client Maximo administrator(s) in moving MapEngine configuration and database elements from Development to Production environment.

13. Go Live Support

MapEngine for Maximo 6.x Implementation Detail

Work (hours) Breakdown for Required and Optional Items
The following work hours are presented only as estimates. This proposal does not include an estimate for implementing Linear Work Orders and specific ABCWUA Work Order Display requirements. These details will be finalized after the workshop with ABCWUA.

No.	Name	Work Hours
1	**ABCWUA Project**	**800 hrs**
1.1	**2-day Workshop Prep, Execution, and Follow up**	**120 hrs**
1.1.1	2-day Workshop Prep and Execution	70 hrs
1.1.2	Finalize Requirements	20 hrs
1.1.3	Write-up/documentation after workshop and requirements gathering	30 hrs
1.2	**Maximo Dev Installation**	**50 hrs**
1.2.1	Secure and test system access	10 hrs
1.2.2	Database	20 hrs
1.2.3	MapEngine Files Install and Variable Setting	10 hrs
1.2.4	Install MEAdmin	5 hrs
1.2.5	Configure Back Ups, other data repositories	5 hrs
1.3	**Data Prep and Sync - 20 layers**	**185 hrs**
1.3.1	Finalize Hierarchy, Asset Class, Failure Class specifications and update in Maximo	30 hrs
1.3.2	GIS Data Validation (Maximo ID)	15 hrs
1.3.3	Update AGMAPLAYERS	20 hrs
1.3.4	Create entries in MEAdmin for each layer	30 hrs
1.3.5	Test configuration	30 hrs
1.3.6	Validate results with the client	10 hrs
1.3.7	Correct configuration errors	10 hrs
1.3.8	Rerun data load	10 hrs

1.3.9	Validate data load	25 hrs
1.3.10	Set up batch process, if necessary	5 hrs
1.3.11	Converting Meters from locations to assets	TBD
1.4	**Install, Configure, and Test Map in Maximo Applications**	**250 hrs**
1.4.1	Work Order Tracking	80 hrs
1.4.2	Service Requests	20 hrs
1.4.2	Assets	15 hrs
1.4.3	Locations	15 hrs
1.4.4	Routes	30 hrs
1.4.5	PMs	30 hrs
1.4.6	Testing Round 1 - without Linear	80 hrs
1.5	**Work Order Display (Legend)**	**TBD hrs**
1.5.1	Differentiate display of point work orders by work order status.	TBD hrs
1.5.2	Differentiate display by work order type (i.e. Sub Work Type: Televised).	TBD hrs
1.5.3	Ability to turn on and off work order layers by status, sub work type.	TBD hrs
1.6	**Linear Work Order Configuration**	**TBD hrs**
1.6.1	Functional Requirements and signoff	TBD hrs
1.6.2	Develop backend (java) and GUI (Javascript) code to support	TBD hrs
1.6.3	Testing iteration with client on functionality	TBD hrs
1.6.4	Linear Asset Configuration in GIS	TBD hrs
1.6.5	Linear Asset Configuration in Maximo	TBD hrs
1.6.6	Testing Round 2 - with linear	TBD hrs
1.7	**Training**	**85 hrs**
1.7.1	Write Specifications	20 hrs
1.7.2	Update Training Material	20 hrs
1.7.3	Train-the-trainer for config/running of data sync software.	10 hrs

1.7.4	Train-the-trainer for map use in Maximo	10 hrs
1.7.5	Train up 2 MapEngine administrators.	25 hrs
1.8	**Project Management**	**60 hrs**
1.8.1	Weekly Status Meetings	20 hrs
1.8.2	Miscellaneous project meetings, discussions, planning	40 hrs
1.9	**Migration and Test**	**50 hrs**
1.9.1	**Maximo Integration Environment**	**25 hrs**
1.9.1.1	Maximo Integration environment installation	10 hrs
1.9.1.2	Issue Resolution	15 hrs
1.9.2	**Maximo Production Environment**	**25 hrs**
1.9.2.1	Maximo Production environment installation	10 hrs
1.9.2.2	Post-production Issue Resolution	15 hrs

Cost for Services/Travel

Line	Task/Category	Quantity / Hours	Cost ($US)
1.	Service Hours	800	$96,000
2.	Travel Costs	At Cost	$15,000

*Above prices do not include taxes, export/import fees, county/national/state/local licenses, or database/software licenses (database drivers, ODBC drivers, Oracle Spatial licenses, ArcSDE server/license fees, Google software/data licenses, etc.).