

**SECOND AMENDMENT  
TO PROFESSIONAL SERVICES AGREEMENT NUMBER F001496  
WITH E&M ELECTRIC AND MACHINERY, INC. dba WONDERWARE CALIFORNIA**

This Second Amendment to Agreement number F001496, dated September 11, 2017 ("Agreement") is made as of this \_\_\_\_\_ day of \_\_\_\_\_, 2021, by and between the City of Santa Rosa, a municipal corporation ("City"), and E&M Electric and Machinery, Inc. dba Wonderware California, a California Corporation ("Consultant").

**RECITALS**

- A. On September 11, 2017, City and Consultant entered into the Agreement for Consultant to provide technical services including network and software upgrades that are specific to the network and equipment that utilize software developed by Wonderware, in a not to exceed sum of \$64,471.30.
- B. On August 16, 2018, City and Consultant entered into the First Amendment to the Agreement to update the scope of services to include annual licensing fees in support of operational and compliance recording equipment that utilizes software developed by Wonderware for five years, increase the compensation from \$259,631.00 to a not to exceed total sum of \$324,102.30 and extend the time of performance to September 1, 2023.
- C. The Parties acknowledge that the Agreement and the First Amendment both erroneously identified Consultant as "E&M Electrical and Machinery, Inc. DBA WonderWare California." The Parties now desire to identify Consultant correctly as "E&M Electric and Machinery, Inc. dba Wonderware California," and agree that the corrected name applies to the Agreement, First Amendment and now this Second Amendment.
- D. City and Consultant now desire to amend the Agreement for the purpose of updating the scope of services to provide technical services for network and hardware installation. The network services will support of operational SCADA data recording that utilize software developed by Wonderware for the next three years.

**AMENDMENT**

**NOW, THEREFORE**, the parties agree to amend the Agreement as follows:

1. Section 1. Scope of Services

Exhibit A-3 o the Agreement is supplemented by Exhibit A-4 and Exhibit A-5, each dated October 1, 2021 and attached to this Amendment.

2. Section 2. Compensation

Section 2(c) is amended to increase the compensation payable to Consultant under the Agreement by \$257,725.00 to read as follows:

"Notwithstanding any other provision in this Agreement to the contrary, the total maximum compensation to be paid for the satisfactory accomplishment and completion of all tasks set forth above shall in no event exceed the sum of five hundred eighty one thousand, eight hundred twenty seven dollars and thirty cents (\$581,827.30). The City's Chief Financial Officer is authorized to pay all proper claims from Charge Numbers: 83619

3. Section 12. Time of Performance

The last sentence of Section 12 is amended to read as follows:

"Consultant shall complete all the required services and tasks and complete and tender all deliverables to the reasonable satisfaction of City, not later than September 1, 2024."

4. Section 20. Counterparts and Electronic Signatures.

Section 20 (Counterparts and Electronic Signatures) is added to the Agreement after Section 19 (Authority; Signatures Required for Corporations) as follows:

"Section 20. Counterparts and Electronic Signatures. This Agreement and future documents relating thereto may be executed in two or more counterparts, each of which will be deemed an original and all of which together constitute one Agreement. Counterparts and/or signatures delivered by facsimile, pdf or City-approved electronic means have the same force and effect as the use of a manual signature. Both City and Consultant wish to permit this Agreement and future documents relating thereto to be electronically signed in accordance with applicable federal and California law. Either Party to this Agreement may revoke its permission to use electronic signatures at any time for future documents by providing notice pursuant to the Agreement. The Parties agree that electronic signatures, by their respective signatories are intended to authenticate such signatures and to give rise to a valid, enforceable, and fully effective Agreement. The City reserves the right to reject any digital signature that cannot be positively verified by the City as an authentic electronic signature."

5. Correction of Consultant Name.

All references to "E&M Electrical and Machinery, Inc." in the Agreement, as amended by the First Amendment are modified to read "E&M Electric and Machinery, Inc."

All other terms of the Agreement shall remain in full force and effect.

Executed as of the day and year first above stated.

**CONSULTANT:**

Name of Firm: E&M Electric and Machinery,  
Inc. dba Wonderware California

TYPE OF BUSINESS ENTITY (*check one*):

- Individual/Sole Proprietor
- Partnership
- Corporation
- Limited Liability Company
- Other (please specify: \_\_\_\_\_)

*Signatures of Authorized Persons:*

By: \_\_\_\_\_

Print Name: \_\_\_\_\_

Title: \_\_\_\_\_

By: \_\_\_\_\_

Print Name: \_\_\_\_\_

Title: \_\_\_\_\_

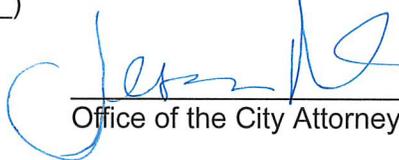
**CITY OF SANTA ROSA**  
a Municipal Corporation

By: \_\_\_\_\_

Print Name: \_\_\_\_\_

Title: \_\_\_\_\_

APPROVED AS TO FORM:



\_\_\_\_\_  
Office of the City Attorney

AEA 10/27/21

ATTEST:

\_\_\_\_\_  
BPU Secretary

City of Santa Rosa Business Tax Cert. No.

9977051904

Attachment: Exhibit A-4; Exhibit A-5

Ex. A-4



126 Mill Street  
Healdsburg, CA 95448  
(866) WONDER N  
(866) 966-3376

**QUOTE** **253927.1** **SROSA**

WWCA SCADA Server IT SERVICES  
10/01/2021

Direct Opp  
Revising

**Ship To:** City of Santa Rosa  
4300 LLANO RD.  
SANTA ROSA, CA 95407

**Attn:** Lisa Jones  
**CITY OF SANTA ROSA**  
*direct* (707) 543-3382  
*main* (707) 543-3382  
*fax*

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**From:** Ty Brown  
[ty.brown@california.wonderware.com](mailto:ty.brown@california.wonderware.com)  
*direct* (707) 473-3176  
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*fax* (707) 473-3190

Thank you for the opportunity to offer you this quote!

Professional Services	Hourly Rate
SCADA Services-Onsite/Remote	\$200
SCADA Services-Project Management	\$265
SCADA IT Documentation Services	\$185
SCADA IT Services-Remote	\$215
SCADA IT Services-Onsite	\$275

Customer Site ID# 126, 4300 Llano Road, Laguna Treatment Plant, Santa Rosa CA 95407

\*Please note: Quoted licenses are perpetual, unless specifically noted as subscription or Flex licensing

\*\*Special Payment Terms apply to this order. By agreeing to these terms, you agree to pay all invoices 30 days from the date of invoice and you recognize that some invoices represent progress payment that will be issued prior to delivery of goods or services. Failure to pay invoices with terms could result in project delays.

Wonderware solutions are now AVEVA solutions: Learn more about this exciting change here:  
<https://sw.aveva.com/wonderware>  
Interested in additional training? Please visit our website and view our events schedule at [www.california.wonderware.com](http://www.california.wonderware.com).

Access the status of your order on our Online Order Status system!! Just click on the link contained in your order confirmation to begin the login process. Once signed up you can access via [www.california.wonderware.com](http://www.california.wonderware.com).



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**Server A IT Services**

- Configuration Sheet

Please note: A completed configuration sheet must be returned to Wonderware California, an AVEVA Distributor before parts can be ordered and work can be performed.

- VM Base Documentation is highly recommended as it provides the basic needs to commission the system. It outlines what was done to the system(s), the passwords that were used and any next steps that need to be take. Without this documentation, it will be the responsibility of the customer to determine the proper cabling for the system. Without this documentation System support for installation and commissioning will be limited.

- System Cabling Diagram
- System Startup Procedures for a Typical Host
- Quality Assurance Documentation

- SVC Documentation

Optional Documentation details the specifics of the configuration that was done to your specific server host hardware. It would allow you to recreate the base installation of the hypervisor host system(s). This documents the configuration and settings used to create the hypervisor host system(s). With this documentation, the host system(s) can be recreated with hypervisor host system knowledge. It is responsibility of the customer to educate themselves on the operation and maintenance of hypervisor host systems. Without this documentation system support will be limited.

- Configuration of Typical Host
- Configuration of Local Storage RAID
- Installation and Configuration of a VM into a Host

Configure One DELL Servers with local storage.  
COSR-WW-HOST01 - Primary Host

Configure 5 Virtual Machines  
Install Wonderware Software and Licenses  
COSR-WW-DC01 - Primary Domain Controller  
COSR-WW-AOS01 - AOS #1  
COSR-WW-RDS01 - Remote Desktop Server #1  
COSR-WW-GR01 - Galaxy Repository/IDE  
COSR-WW-HIS01 - Historian #1

Configure and provision Network Switch

\*NOTE: Servers will be added to a new Activity Directory Domain. New AD DC will be a VM on this system.

\*NOTE: WWCA IT Services does NOT include any Wonderware application installation, development or Migration services, unless specifically quoted elsewhere

Quantity	Part Number/Description	Availability*	Tax	Price	Extension
1	WWCA-CONFIG-SHEET	1 Estimated TBD	Y	\$0.00	\$0.00
Line:1	Completed WWCA Configuration Sheet is required w/ purchase of WWCA IT Services				
1	WWCA-VM-BASE-DOC	1 Estimated TBD	N	\$1,000.00	\$1,000.00
Line:2	Hypervisor System Base Documentation				

**PO Number:**  
**Duration:** This quote is valid for 30 days. **FOB:** Healdsburg, CA  
**Freight:** Prepaid and Add  
**Terms:** Net 30 Days  
**Pages:** 2 of 4

This quotation may contain engineering services that are subject to additional terms and conditions.

Remit to: E&M, Inc. 126 Mill Street, Healdsburg, CA 95448

[california.wonderware.com](http://california.wonderware.com)



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**SROSA**

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Revising

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Quantity	Part Number/Description	Availability*	Tax	Price	Extension
30 Line:3	WWCA-SVC-DOC Optional system installation and configuration documentation	30 Estimated TBD	N	\$185.00	\$5,550.00
54 Line:4	WWCA-SVC-0010 IT Services / I Hour - IT Services (Install and Configure ESXi Host with 5 VMS: WW Historian, WW AOS, WW DC, WW RDS, WW GR, Network Switch Config	54 Estimated TBD	N	\$215.00	\$11,610.00
				<b>Sub-Total</b>	<b>\$18,160.00</b>

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**Server B IT Services**

Please note: A completed configuration sheet must be returned to Wonderware California, an AVEVA Distributor before parts can be ordered and work can be performed.

- Configure One DELL Servers with local storage.  
COSR-WW-HOST01 - Primary Host
- Configure 7 Virtual Machines  
Install Wonderware Software and Licenses  
COSR-WW-DC02 - Primary Domain Controller  
COSR-WW-AOS02 - AOS #1  
COSR-WW-RDS02 - Remote Desktop Server #1  
COSR-WW-HIS01 - Historian #1  
Camera Server  
Mail Server  
Vibration Monitoring Server

Configure and provision Network Switch

\*NOTE: Servers will be added to a new Activity Directory Domain. New AD DC will be a VM on this system.

\*NOTE: WWCA IT Services does NOT include any Wonderware application installation, development or Migration services, unless specifically quoted elsewhere

Quantity	Part Number/Description	Availability*	Tax	Price	Extension
1	WWCA-CONFIG-SHEET	1 Estimated TBD	Y	\$0.00	\$0.00
Line:5	Completed WWCA Configuration Sheet is required w/ purchase of WWCA IT Services				
53	WWCA-SVC-0010	53 Estimated TBD	N	\$215.00	\$11,395.00
Line:6	IT Services / I Hour - IT Services (Install and Configure ESXi Host with 5 VMS: WW Historian, WW AOS, WW DC, WW RDS, WW GR, Network Switch Config				

**Sub-Total \$11,395.00**

**Base Quotation Pricing Summary**

**Availability:**

- Part availability is subject to change and is based on the availability at the time this quote was created.
- Time in transit is subject to change depending on the "Ship To" address that is provided by the customer at the time the order is placed and the method in which customer requests that the part(s) ship.
- For "In Stock" parts, orders must be received by 3:00PM PST to ship same day.
- For Factory Stock parts, please allow approximately one week for delivery via our standard shipping methods.

<b>Taxable:</b>	\$0.00
<b>Non-Taxable:</b>	\$29,555.00
<b>Subtotal:</b>	\$29,555.00
<b>Tax (9.25%):</b>	\$0.00
<b>Freight:</b>	TBD
<b>TOTAL:</b>	<b>\$29,555.00</b>

*Freight is NOT included in this total. Your final invoice may include freight charges.*

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**Freight:** Prepaid and Add

**Terms:** Net 30 Days

**Pages:** 4 of 4

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**QUOTE****254445.3****SROSA**

SCADA Upgrade Services

10/01/2021

Direct Opp  
Revising

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Thank you for the opportunity to offer you this quote!

Professional Services	Hourly Rate
SCADA Services-Onsite/Remote	\$200
SCADA Services-Project Management	\$265
SCADA IT Documentation Services	\$185
SCADA IT Services-Remote	\$215
SCADA IT Services-Onsite	\$275

***SERVICE SUMMARY:***

This is a Time and Material (T&M) proposal for the Engineer to provide an upgrade for the City of Santa Rosa's System Platform-based SCADA System. This proposal includes the scope of work for Phase1, upgrade of the existing System Platform installation, and Phase 2, migration of the existing Geysers Refresh InTouch application into the System Platform upgraded in Phase1.

The current system consists of a System Platform-based architecture that has evolved from what was originally an InTouch-based SCADA system. It consists of two (2) AOS Servers, two (2) redundant Tier 1 Historians, one (1) Tier 2 Historian and sixteen (16) InTouch thick client workstations. The architecture is unusual in that the DA Servers reside on two (2) of the thick clients, as do recently installed redundant TopView alarm notification software.

Phase 1 scope of work would upgrade and modify the existing System Platform installation, including:

- Add domain controller (Qty. 1)
- Server application software Installation and configuration
- Upgrade existing System Platform to V2017 U3 or V2020
- Modify existing system architecture to include:
  - Provide dedicated (non-thick client) OI Server computers
  - Modifications to existing AOS and IO Engine structure to improve redundancy
  - Relocate Galaxy Repository to new dedicated server
  - Add domain-based security to include:
    - Create 3 User Roles (Admin, InTouch User, Read-Only)
    - Provide "default" operational access control
      - Admin – Full IDE/SMC & All "default" operational controls
      - InTouch User – No IDE/SMC Access & All "default" operational controls
      - Read-only – No "default" operational controls
    - Configure up to 50 users if using 'user' as opposed to 'group-based' security

**PO Number:**

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**Pages:** 1 of 14

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**QUOTE**

**254445.3**

**SROSA**

SCADA Upgrade Services

10/01/2021

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- Configure redundant RDS servers and assist in deployment and configuration of thin client workstations
- Configure two (2) ThinManager servers
- Upgrade existing Aveva Tier 1 Historian
- Upgrade existing redundant Aveva Tier 1 Historian
- Upgrade existing Aveva Tier 2 Historian
- Relocate and configure redundant TopView alarm annunciation software to new virtualized servers
- In addition to upgrading the existing system, the proposed changes would significantly enhance system redundancy and resilience and would make the system less susceptible to single point hardware failures.

Specific tasks included in Phase 1 would include:

- Project kickoff & design
  - Remote kickoff meeting
  - Review of existing system, including:
    - System Architecture & SA Documentation
    - VM Inventory & Infrastructure
    - 3rd Party and/or Custom Databases (e.g., Dream Report, Custom Reporting, etc.)
    - Security Implementation
    - Galaxy Review
    - IO Communications (IO Servers, OPC Servers, etc.)
    - Scripting & Other System Programming
    - User Interfaces
    - Review Other System Elements
    - Logs (SMC, etc.)
  - Design of new OI server redundancy
  - Design Artifacts required to document, and test upgraded system, including:
    - New System Architecture Diagram
    - Test Plan
    - Migration/Rollout Plan
    - System User & Administration Manuals
    - System Backup & Recovery Documentation
- VM and server setup and configuration
  - Onsite installation and configuration or software on new virtualized server(s) (Qty. 14)
- System Platform Upgrade
  - Migrate existing Galaxy
  - Upgrade OI Servers
  - Execution of Test & Migration/Rollout Plans

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- System Architecture Modifications
  - Modifications to AOS and IO Engines to improve redundancy
  - Relocate GR to new server
  - Add domain-based security as outlined above
  - Add Qty. two (2) RDS Servers
  - **Add others as required**
  - Test architecture modifications
- Upgrade existing Aveva Tier 1 Historian
  - Installation of SQL Server and Aveva Historian software on new server provided by client (**unless VM Server configuration included above**)
  - Installation of Historian licensing
  - Installation of Historian Client software and licensing as required
  - Migration of legacy history blocks
  - Checkout, validation, and startup of Historian
- Upgrade Redundant Aveva Tier 1 Historian
  - Installation of SQL Server and Aveva Historian software on new redundant server provided by client (**unless VM Server configuration included above**)
  - Installation of Historian licensing
  - Installation of Historian Client software and licensing as required
  - Configuration of Historian redundancy
  - Migration of legacy history blocks
  - Checkout, validation, and startup of Historian
- Upgrade Tier 2 Aveva Historian (To be performed remotely)
  - Installation of SQL Server and Aveva Historian software on new server provided by client (**unless VM Server configuration included above**)
  - Installation of Historian licensing
  - Installation of Historian Client software and licensing as required
  - Migration of legacy history blocks
  - Checkout, validation, and startup of Historian
- Relocate, re-install, and re-configure as necessary redundant TopView alarm annunciation software on two (2) new virtualized servers
  - Software Installation
  - Existing system upgrade/conversion
  - Hot Backup Configuration
  - Testing & validation

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- Install and configure ThinManager
  - Software Installation
  - Testing and validation of ThinManager operation
  - Support for phased migration of thin clients to new RDS servers (16 clients)

Phase 2 of the project would start with the upgraded System Platform installation and convert and integrate the existing Geysers Refresh InTouch system into it.

The existing Geysers Refresh system utilizes a legacy InTouch "tag server" architecture, with the tag server application running on a terminal server in the console application. An unknown number of InTouch client sessions are also hosted by this terminal server. The existing system also has a standalone Historian, and Win911 alarm annunciation is also utilized, and it is assumed that this runs on a separate server. The existing InTouch application utilizes a file transfer mechanism to import data from a standalone Bentley Nevada vibration monitoring system, and the application includes hard coded link in selected windows that retrieve Excel spreadsheets.

Specific tasks included in Phase 2 would include:

- Project kickoff & design
  - Remote kickoff meeting
  - InTouch to System Platform Conversion
    - Detailed InTouch Tag Analysis
      - Document Access Names
      - Document Tags by Data Type
      - Group IO Tags per Access Name
      - Document Alarms
      - Document Alarm Groups
    - Security Analysis
      - Determine current security implementation
    - Window Analysis
      - Total Windows
      - Main Windows
      - ActiveX Usage (Historical Trending / Alarm / Others)
      - Custom Content
    - Script Analysis
      - Application
        - Startup

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*main* (707) 543-3382  
*fax*

**Bill To:** CITY OF SANTA ROSA  
4300 LLANO ROAD  
SANTA ROSA, CA 95407

**From:** Ty Brown  
[ty.brown@california.wonderware.com](mailto:ty.brown@california.wonderware.com)  
*direct* (707) 473-3176  
*main* (866) 966-3376  
*fax* (707) 473-3190

- Modify/Remove security scripting
  - Modify/Remove hostname logic
  - Modify/Remove Alarm Logger logic
- While Running
  - Modify/Remove Win911 scripting
  - Modify/Remove GR Flow Calcs
  - Modify/Remove Alarm Logger logic
- Key Scripts
  - Identify Condition-based scripting that will need to be moved to objects
- Condition
  - Identify Condition-based scripting that will need to be moved to objects
- Quick Functions
  - Identify Quick Function scripting that will need to be moved to objects
- Animation Links
- Identify scripting embedded in animation links (Pop-up Windows)
- Tag Analysis
  - Memory
    - Discrete
    - Integer
    - Real
    - Message
  - Indirects
    - Discrete
    - Integer
    - Real
- Historian IDAS Analysis
  - Cross Reference InTouch Tags to be Historized
  - Document Storage & Scaling Factors
- Create Deployment & Area Model for System Platform
  - Define Areas
  - Create Alarm Groups by Area
  - Define RDIO & DI Objects (Access Names)
  - Define Engines
- Custom Object Design (For objects required to replace scripting/animation link scripting/etc.)
  - Object Design
- SQL Access Manager
  - Bind List

**PO Number:**  
**Duration:** This quote is valid for 30 days. **FOB:** Healdsburg, CA  
**Freight:** Prepaid and Add  
**Terms:** Net 30 Days  
**Pages:** 5 of 14

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Remit to: E&M, Inc. 126 Mill Street, Healdsburg, CA 95448

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(866) 966-3376

**QUOTE**

**254445.3**

**SROSA**

SCADA Upgrade Services

10/01/2021

Direct Opp  
Revising

**Ship To:** City of Santa Rosa  
4300 LLANO RD.  
SANTA ROSA, CA 95407

**Attn:** Lisa Jones  
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• Table Templates

- Design Artifacts required to document, and test upgraded system, including:
  - New System Architecture Diagram
  - Test Plan
  - Migration/Rollout Plan
  - System User & Administration Manuals
  - System Backup & Recovery Documentation
- VM and server setup and configuration
  - Installation and configuration or software on new virtualized server(s)
    - Assumes two (2) new hosts for new AOS's 3 & 4
- Migration of existing Geysers Refresh Historian into System Platform
  - Installation of Historian licensing (as required)
  - Migration of legacy history blocks from Geysers Refresh Historian
  - Checkout, validation, and startup of Historian
- Configuration of Geysers Refresh alarms into redundant TopView alarm annunciation software
  - Configuration of Geysers Refresh Alarms
    - Approximately 100 total
    - Assume 5 Users
    - Assume 3 unique schedules
  - Testing & validation
- Configuration of existing ThinManager
  - Modifications to support operation of migrated Geysers Refresh application
- System Platform Conversion (InTouch to System Platform)
  - Development
  - Development Environment Build
  - System Platform Build
    - Boolean Template Build
    - Integer Template Build
    - Real Template Build
    - "Custom" Template Build
    - RDIO Deployments
    - Engine & Area Deployments

**PO Number:**

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**Freight:** Prepaid and Add

**Terms:** Net 30 Days

**Pages:** 6 of 14

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---

- Script or Excel macro for each datatype
  - Application
  - Startup
    - Modify/Remove security scripting
    - Modify/Remove hostname logic
    - Modify/Remove Alarm Logger logic
  - While Running
    - Modify/Remove Win911 scripting
    - Modify/Remove Flow Calcs
    - Modify/Remove Alarm Logger logic
  - Condition
  - Quick Functions
  - Animation Links
  - Modification of scripting embedded in animation links (Pop-up Windows)
- Instantiation
  - Boolean Object Build
  - Integer Object Build
  - Real Object Build
  - Instantiate custom objects
  - Configure & validate attributes for alarming
  - Configure & validate attributes for history
  - Move identified scripting into objects
- Build/Update SP Health Screen Graphics
- Historian
  - Validate operation in DEV environment so embedded trends can be rebuilt
- InTouch Build
  - Import Application
  - Build new tag database (all IO access names become 'Galaxy')
  - Remove Access Names & Alarm Groups
  - Edit each display
  - Remove "TagServer" from references
  - Remove "TagServer" from scripts & animations
- Graphics Build
  - Remove Win911 Content & replace with TopView
  - Historical Trending
  - Alarm Client
  - Alarm History
  - Updated/New Communication Status
- Commissioning (Remote or Onsite)

---

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- Galaxy Build
- OI Servers
- Deploy & Testing
- Testing & Validation
- Parallel Operation/Testing

**PROJECT RESPONSIBILITIES:**

**The Engineer:**

1. Project technical leadership and guidance
2. Project deliverables as outlined above

**The End User/Customer:**

1. Provide required project infrastructure unless specifically provided as part of this proposal, including:
  - 1a. All project hardware, including servers, workstations, mobile devices, network, etc. Assures that all project hardware meets required project specifications.
  - 1b. Mounting, installation, and wiring of all project hardware. Assures that all hardware is operational and properly mounted, installed and wired and is ready for operation.
  - 1c. Server & workstation configuration including OS, network, virtualization, etc. Assures that all hardware is operational and properly configured to support required network communications.
  - 1d. Server & workstation software licensing, including OS (Windows), virtualization, database, and other system-level software.
  - 1e. Aveva and any other application software licensing.
  - 1f. Make infrastructure available for project development and testing.
2. Provide physical access to relevant systems and equipment if & as required.
3. Provide reliable, robust remote access to relevant systems sufficient to allow remote development, testing, & support.
4. Provide required user credentials and permissions.
5. Ensure that appropriate, qualified staff are readily available to assist with all aspects of the project's design, development, testing, and deployment.

**ASSUMPTIONS:**

The following are assumptions or considerations that apply to this proposal. Deviations from these may result in schedule impact or additional costs to the client.

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1. Work will be completed through a combination of remote and onsite tasks.
2. Application will be upgraded "as-is". Existing operational or functionality issues will not be addressed as part of this project and application resolution and aspect ratio will remain "as-is".
3. Customized or other system content (e.g., custom databases, reporting, integration to peripheral systems, etc.) not specifically listed in the proposal above will be considered out of scope. Any undisclosed system content identified as part of project activities (e.g., system discovery, design, etc.) will be documented and its potential impact discussed by the Engineer and End User. Any change in scope and associated cost impacts will be addressed and agreed upon before progressing with any work involving undisclosed system content.
4. No modifications beyond those outlined in this proposal are included. As part of the project kickoff process:
  - a. A review will be performed with the End User to identify any non-operational or non-functional aspects of the system.
  - b. Anything identified that is outside the scope of modifications outlined in this proposal will be noted and discussed with the End User.
  - c. If time allows, the Engineer will investigate and provide an estimated scope of work to resolve them.
5. No analysis, modifications, or enhancements to underlying control system(s) is included.
6. Additional on-site time or return visits to site due to lack of client system readiness, unavailability of support resources, etc. are subject to additional charges at our standard service and travel rates.
7. Client IT staff will be responsible for configuration of redundant domain controllers and for configuration of RDS roles.
8. Phase 2 migration of Geysers Refresh would be executed following completion of the Phase 1 upgrade of the existing System Platform system.

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Services Time Detail			
Kickoff & Design			
- Quoted on a time & materials (T&M) basis			
- Onsite Hours	0	Hrs.	
- Offsite Hours	132	Hrs.	
- PM Time	14	Hrs.	
VM & Server Setup			
- Quoted on a time & materials (T&M) basis			
- Onsite Hours	30	Hrs.	
- Offsite Hours	0	Hrs.	
- PM Time	3	Hrs.	
System Platform Upgrade			
- Quoted on a time & materials (T&M) basis			
- Onsite Hours	52	Hrs.	
- Offsite Hours	0	Hrs.	
- PM Time	6	Hrs.	
System Architecture Change			
- Quoted on a time & materials (T&M) basis			
- Onsite Hours	16	Hrs.	
- Offsite Hours	52	Hrs.	
- PM Time	8	Hrs.	

Services Time Detail			
Kickoff & Design			
- Quoted on a time & materials (T&M) basis			
- Onsite Hours	0	Hrs.	
- Offsite Hours	77	Hrs.	
- PM Time	8	Hrs.	
VM & Server Setup			
- Quoted on a time & materials (T&M) basis			
- Onsite Hours	8	Hrs.	
- Offsite Hours	0	Hrs.	
- PM Time	1	Hrs.	
System Architecture Change			
- Quoted on a time & materials (T&M) basis			
- Onsite Hours	0	Hrs.	
- Offsite Hours	0	Hrs.	
- PM Time	0	Hrs.	
Historian			
- Quoted on a time & materials (T&M) basis			
- Onsite Hours	50	Hrs.	
- Offsite Hours	0	Hrs.	
- PM Time	5	Hrs.	

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<b>Historian Upgrade &amp; Redundancy</b>			
<b>- Quoted on a time &amp; materials (T&amp;M) basis</b>			
- Onsite Hours	64	Hrs.	
- Offsite Hours	0	Hrs.	
- PM Time	7	Hrs.	
<b>Tier 2 Historion</b>			
<b>- Quoted on a time &amp; materials (T&amp;M) basis</b>			
- Onsite Hours	0	Hrs.	
- Offsite Hours	32	Hrs.	
- PM Time	4	Hrs.	
<b>TopView Migration &amp; Redundancy</b>			
<b>- Quoted on a time &amp; materials (T&amp;M) basis</b>			
- Onsite Hours	0	Hrs.	
- Offsite Hours	48	Hrs.	
- PM Time	5	Hrs.	
<b>ThinManager</b>			
<b>- Quoted on a time &amp; materials (T&amp;M) basis</b>			
- Onsite Hours	40	Hrs.	
- Offsite Hours	0	Hrs.	
- PM Time	4	Hrs.	

<b>TopView</b>			
<b>- Quoted on a time &amp; materials (T&amp;M) basis</b>			
- Onsite Hours	40	Hrs.	
- Offsite Hours	0	Hrs.	
- PM Time	4	Hrs.	
<b>ThinManager</b>			
<b>- Quoted on a time &amp; materials (T&amp;M) basis</b>			
- Onsite Hours	4	Hrs.	
- Offsite Hours	0	Hrs.	
- PM Time	1	Hrs.	
<b>System Platform Conversion</b>			
<b>- Quoted on a time &amp; materials (T&amp;M) basis</b>			
- Onsite Hours	48	Hrs.	
- Offsite Hours	124	Hrs.	
- PM Time	18	Hrs.	

- For Wonderware by AVEVA training, please visit our website and view our events schedule at [www.california.wonderware.com](http://www.california.wonderware.com).

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**Phase 1**

Quantity	Part Number/Description	Availability*	Tax	Price	Extension
466 Line:1	WW.CA.SERVICES Remote/Onsite Solution Services - Hourly	466 Estimated 1 Day	N	\$200.00	\$93,200.00
51 Line:2	WW.CA.PROJECTMANAGEMENT Consulting and Auditing is defined as services provided by a senior level employee for the purposes of project management	51 Estimated TBD	N	\$265.00	\$13,515.00
1 Line:3	WW.CA.EXPENSES VM Server & Setup Expenses *Place Holder* - Estimate only. Will be billed based on actual costs + 15%	1 Estimated TBD	N	\$5,180.00	\$5,180.00
1 Line:4	WW.CA.EXPENSES-2 System Platform Upgrade Expenses *Place Holder* - Estimate only. Will be billed based on actual costs + 15%	1 Estimated TBD	N	\$5,650.00	\$5,650.00
1 Line:5	WW.CA.EXPENSES-3 System Architecture Change Expenses *Place Holder* - Estimate only. Will be billed based on actual costs + 15%	1 Estimated TBD	N	\$945.00	\$945.00
1 Line:6	WW.CA.EXPENSES-4 Historian Upgrade & Redundancy Expenses *Place Holder* - Estimate only. Will be billed based on actual costs + 15%	1 Estimated TBD	N	\$8,945.00	\$8,945.00
1 Line:7	WW.CA.EXPENSES-5 Thin Manager Expenses *Place Holder* - Estimate only. Will be billed based on actual costs + 15%	1 Estimated TBD	N	\$5,180.00	\$5,180.00

**Sub-Total \$132,615.00**

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**Phase 2**

Quantity	Part Number/Description	Availability*	Tax	Price	Extension
351 Line:8	WW.CA.SERVICES Remote/Onsite Solution Services - Hourly	351 Estimated 1 Day	N	\$200.00	\$70,200.00
37 Line:9	WW.CA.PROJECTMANAGEMENT Consulting and Auditing is defined as services provided by a senior level employee for the purposes of project management	37 Estimated TBD	N	\$265.00	\$9,805.00
1 Line:10	WW.CA.EXPENSES-6 VM & Server Setup Expenses *Place Holder* - Estimate only. Will be billed based on actual costs + 15%	1 Estimated 1 Day	N	\$240.00	\$240.00
1 Line:11	WW.CA.EXPENSES-7 Historian Expenses *Place Holder* - Estimate only. Will be billed based on actual costs + 15%	1 Estimated 1 Day	N	\$4,945.00	\$4,945.00
1 Line:12	WW.CA.EXPENSES-8 TopView Expenses *Place Holder* - Estimate only. Will be billed based on actual costs + 15%	1 Estimated 1 Day	N	\$4,710.00	\$4,710.00
1 Line:13	WW.CA.EXPENSES-9 Thin Manager Expenses *Place Holder* - Estimate only. Will be billed based on actual costs + 15%	1 Estimated 1 Day	N	\$475.00	\$475.00
1 Line:14	WW.CA.EXPENSES-10 System Platform Conversion Expenses *Place Holder* - Estimate only. Will be billed based on actual costs + 15%	1 Estimated 1 Day	N	\$5,180.00	\$5,180.00

**Sub-Total \$95,555.00**

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**Base Quotation Pricing Summary**

**Availability:**

- Part availability is subject to change and is based on the availability at the time this quote was created.
- Time in transit is subject to change depending on the "Ship To" address that is provided by the customer at the time the order is placed and the method in which customer requests that the part(s) ship.
- For "In Stock" parts, orders must be received by 3:00PM PST to ship same day.
- For Factory Stock parts, please allow approximately one week for delivery via our standard shipping methods.

*Freight is NOT included in this total. Your final invoice may include freight charges.*

<b>Taxable:</b>	\$0.00
<b>Non-Taxable:</b>	\$228,170.00
<hr/>	
<b>Subtotal:</b>	\$228,170.00
<b>Tax (9.25%):</b>	\$0.00
<b>Freight:</b>	TBD
<hr/>	
<b>TOTAL:</b>	<b>\$228,170.00</b>

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