

STATE OF ILLINOIS)
) SS
COUNTY OF DU PAGE)

I, Lynn Curiale, City Clerk of Wood Dale, Illinois DO HEREBY CERTIFY that as such City Clerk and keeper of the records, that the foregoing is a true and correct copy of Resolution #R-20-28 **A RESOLUTION APPROVING AN AGREEMENT BETWEEN THE CITY OF WOOD DALE AND CONCENTRIC INTEGRATION FOR UPGRADES TO THE CITY'S SCADA SYSTEM IN AN AMOUNT NOT TO EXCEED \$46,800** Passed by The City of Wood Dale, Du Page County, Illinois, IN WITNESS WHEREOF, I have hereunto subscribed my name and affixed the seal of the City of Wood Dale, this 21ST day of May, 2020



Lynn Curiale, City Clerk



Resolution #R-20-28

A RESOLUTION APPROVING AN AGREEMENT BETWEEN THE CITY OF WOOD DALE AND CONCENTRIC INTEGRATION FOR UPGRADES TO THE CITY'S SCADA SYSTEM IN AN AMOUNT NOT TO EXCEED \$46,800

Passed: May 21, 2020
Published in Pamphlet Form: May 22, 2020

I, Lynn Curiale, as the City Clerk for the City of Wood Dale, hereby certify that the attached Resolution is a true and correct copy of #R-20-28

A RESOLUTION APPROVING AN AGREEMENT BETWEEN THE CITY OF WOOD DALE AND CONCENTRIC INTEGRATION FOR UPGRADES TO THE CITY'S SCADA SYSTEM IN AN AMOUNT NOT TO EXCEED \$46,800

Passed and approved by the City Council of the City of Wood Dale on May 21, 2020 and hereby published in pamphlet on May 22, 2020



Lynn Curiale, City Clerk

SEAL



RESOLUTION NO. R-20-28

A RESOLUTION APPROVING AN AGREEMENT BETWEEN THE CITY OF WOOD DALE AND CONCENTRIC INTEGRATION FOR UPGRADES TO THE CITY'S SCADA SYSTEM IN AN AMOUNT NOT TO EXCEED \$46,800

WHEREAS, the City of Wood Dale (hereinafter referred to as the "City") is a duly organized and existing body politic and corporate governed by the provisions of the Illinois Municipal Code, 65 ILCS 5/1-1-1, *et seq.*, and its own duly adopted Municipal Code; and

WHEREAS, the City is authorized and empowered under the Illinois Municipal Code, and its Ordinances adopted pursuant thereto, to enter into agreements and to contract for goods and services; and

WHEREAS, the Mayor and the City Council of the City seek to ensure that the City is run effectively and efficiently; and

WHEREAS, the Mayor and the City Council of the City, seeks the **CONCENTRIC INTEGRATION** for the **SCADA UPGRADES**; and

WHEREAS, these services are necessary to maintain and promote an effective and efficient City Government; and

WHEREAS, after diligent review of the qualifications and services of **CONCENTRIC INTEGRATION**, the Mayor and the City Council find **CONCENTRIC INTEGRATION** is the most qualified firm to perform the duties sought by the City; and

NOW, THEREFORE, BE IT RESOLVED BY THE CITY OF WOOD DALE, DUPAGE COUNTY, AN ILLINOIS CORPORATION, as follows:

SECTION 1: The recitals set forth above are incorporated herein and made a part hereof.

SECTION 2: The Mayor is authorized to execute said Agreement on behalf of the City of Wood Dale, which signature shall be attested to by the City Clerk.

SECTION 3: The City Manager, staff and/or the City Attorney shall take the steps necessary to put the terms and conditions of the Agreement into effect.

SECTION 4: That all ordinances and resolutions, or parts thereof in conflict with the provisions of this Resolution are, to the extent of such conflict, hereby repealed.

SECTION 5: That this Resolution shall be in full force and effect from and after its adoption, approval and publication in pamphlet form as provided by law.

PASSED this 21st day of May, 2020.

AYES: Alderman Woods, Susmarski, Catalano, Messina, Sorrentino, Jakab

NAYS: None

ABSENT: Alderman R. Wesley, E. Wesley

APPROVED this 21st day of May, 2020.

SIGNED: *Annunziato Pulice*
Annunziato Pulice, Mayor

ATTEST: *Lynn Curiale*
Lynn Curiale, City Clerk



Project Proposal

April 29, 2020

Mr. Alan Lange
Director of Public Works
City of Wood Dale
404 N. Wood Dale Road
Wood Dale, IL 60191

Subject: SCADA Server Upgrade Rev.2

Concentric Project Number: 200169.50

Dear Mr. Lange:

The City of Wood Dale's SCADA infrastructure (sewers and software) was installed in 2013 and is nearing the end of its serviceable life. It has served the City well but is now nearly 7 years old, and running an end of life operating system for the SCADA servers (Water and Waste Water). Over the past year the system has also been having an increased amount of failures. In addition, the SCADA client computers are running Windows 7 which also went end of support on January of 2020. Running critical services on out of support hardware and software is a security risk and is not recommended.

Concentric Integration is recommending that the City upgrade its SCADA server and workstation software environment. Following is our recommended approach.

Project Approach

Concentric Integration's approach is as follows:

- Replace the existing virtual host server at the Wastewater Treatment Plant with a SCALE virtual redundant appliance (virtual host server). The SCALE virtual infrastructure is the City's current standard.
- Provision a new virtual Windows 2016 Server with FactoryTalk Directory Server (security server shared by water and wastewater).
 - Windows 2016 is the latest server operating system that is supported by FactoryTalk to run the most current version of FactoryTalk.
- Provision a new virtual Windows 2016 Server with FactoryTalk View SE Version 11 and WIN-911 Interactive as the SCADA platform for the Wastewater System.
- Provide and install new Yeastar IP PBX to provide Win911 dial out notification for the Wastewater system.



- Provide, install and configure a new HP EliteDesk 800 (or equivalent) running Windows 10 thick client computer for Wastewater SCADA access.
- Provision a new virtual Windows 2016 Server with FactoryTalk View SE Version 11 and WIN-911 Interactive as the SCADA platform for the Water System.
- Provide and install new Yeastar IP PBX to provide Win911 dial out notification for the Water system.
- Provide, install and configure a new HP EliteDesk 800 (or equivalent) running Windows 10 thick client computer for Water SCADA access.
- Provision a new Windows 2016 virtual Remote Desktop Services (RDS) server to allow remote access to SCADA.
- Provision a new reporting server for the water and WWTP SQL reporting applications.
- Work with City IT to integrate SCADA into the City's existing Active Directory.
- Implement Win911 Mobile Gateway Application.
- Work with City IT to install and configure Carbon Black (endpoint security) and Unitrends Backup Software.
- Upgrade the firmware for the backup alarm dialer.

Scope of Services

Equipment

Concentric will provide the following equipment:

1. FactoryTalk SCADA software licensing
2. Win911 alarm software licensing
3. Two (2) Yeastar S20 (or equal) VoIP PBX device (replaces Dialogic board for WIN-911 alarm notification)
4. Two (2) HP EliteDesk 800 G4 Desktop Computers (or equivalent) with the following specifications:
 - a. Intel Core i7 (8th Gen) i7-8700
 - b. 16 GB DDR4 SDRAM
 - c. 256 GB SSD
 - d. Windows 10 Pro 64-bit (English/French/Spanish)
 - e. Mini-tower



- f. Intel UHD Graphics 630
- g. 3-year Next Business Day

Customer will provide the following software and hardware.

1. One (1) SCALE redundant three (3) node array with the following specifications (or equivalent):
 - a. HE550Z – 3.96TB Raw Storage/1.98TB Usable
 - b. 64GB RAM with Intel Xeon E-2124
 - c. HE550Z 3 Node Cluster
 - d. 3.96TB Raw Storage/1.98TB Usable
 - e. RAM: 64GB
 - f. CPU: 1 x Intel Xeon E-2136 (6C/12T, 3.3 GHz Per Node)
 - g. Network: Redundant 1GbE LAN and backplane NIC ports
 - h. Redundant power supplies
 - i. Integrated storage/servers/virtualization
 - j. 1 year of ScaleCare Support
2. Five (5) Windows Server 2016 Standard (or Datacenter) licenses
 - a. Wastewater SCADA Server
 - b. Water SCADA Server
 - c. Remote Desktop Server
 - d. FactoryTalk Directory Server
 - e. Reporting Server
3. Two (2) Microsoft Office Pro Plus licenses (two for the clients)
4. Antivirus and Backup software licensing
5. Remote Desktop Services Client Access Licensing

Labor

Project Management

1. Concentric Integration shall plan, schedule, and coordinate the activities that must be performed to complete the Project.



2. Concentric Integration will coordinate a short phone-based kick-off phone call or video conference call with City Staff.
3. The Concentric Integration Project Manager will provide every other week project status updates via email and discuss status with the Customer's Project Manager.

Server Preparation

1. Work with City IT to configure SCALE Computing Server to host four (4) virtual servers:
 - a. WWTPSC1 – Wastewater SCADA, Win911, and Reporting Server
 - b. WTPSC1 – Water SCADA, Win911, and Reporting Server
 - c. SCRDS1 – SCADA Remote Desktop Server
 - d. SCDS1 – FactoryTalk Directory Server
 - e. SCRPT - Reporting Server
2. Implement Cloud Based Win911 Mobile.
3. Install two (2) Yeastar VoIP PBXs to replace the existing dialogic card to enable alarm phone notification. The existing POTS line will be connected to the PBX and the WIN-911 software will communicate via a SIP call to place phone calls.
4. Install Microsoft Office on Thick Client workstations.

System Configuration and Programming

1. Upgrade existing FactoryTalk application to FactoryTalk version 11 (includes thick clients and Remote Desktop Services). Migrate the existing FactoryTalk SCADA application to the new version. Software graphics will remain as is.
2. Upgrade Win911 alarming software to Win911 Interactive version (includes Win911 mobile). Migrate the existing Win911 application to the new version and configure to maintain the current functionality.
3. Migrate existing reporting application to new server.
4. Upgrade the firmware for the backup alarm dialer, including the four discrete input alarming nodes located in the control panels.
5. Test with City Staff to confirm proper functionality of system.

Network Diagram Update

1. Update logical Microsoft Visio diagram and provide PDF copy.



Concentric Assumptions / Customer Responsibilities

1. Customer will assign an initial project manager at the project kickoff meeting.
2. Customer is to provide all required Microsoft, backup and antivirus software licensing.
3. Customer will provide site access for installation, programming, and startup during Customer's normal business hours. Work outside of Customer's normal business hours can be agreed upon as needed, provided Concentric can secure the site(s) upon departure.
4. Customer understands that all existing equipment to remain is assumed to be in good, working order. In the event that any other equipment does not perform as-expected, Concentric will work with the Customer to repair, as-needed, under a separate contract.
5. Customer will dispose of/recycle any removed equipment.
6. Customer understands that software/materials purchased outside Concentric may require regular support, and it will coordinate directly with the manufacturer to identify support costs for future budgeting purposes.
7. Concentric has the right to approve the model of the thick client PC workstation selected for the project. If the workstation is not deemed adequate then one can be purchased and invoiced separately from this project.

Project Schedule

Our estimated project schedule will be agreed upon at the project kickoff meeting.

Warranty

The warranty listed in the Standard Terms and Conditions (Paragraph 12.2):

- DOES apply
- DOES NOT apply

Fee

Our fee for the above scope is a lump sum of \$46,800.

This proposal is valid for 90 days from the date issued.



Standard Terms and Conditions References

Effective Date: The Effective Date of this Proposal and the associated Standard Terms and Conditions shall be the date this Proposal is accepted as shown by Customer's dated signature below.

Third Party Materials (See Standard Terms and Conditions Paragraphs 3.2 & 8.3):

- DOES apply
- DOES NOT apply

Notices: Notices required to be provided to Customer in accordance with Paragraph 16.3 of the Standard Terms and Conditions shall be delivered to the individual and address given above, unless Customer provides updated notification information to Concentric in writing

Standard Terms and Conditions

Concentric Integration, LLC's Standard Terms and Conditions, Version 10 (V10), located at <http://goconcentric.com/standard-terms/> are hereby incorporated into this Project Proposal as though fully attached hereto. By signing below, each of the undersigned represents and warrants that Concentric Integration, LLC's Standard Terms & Conditions are legal, valid and binding obligations upon the parties for which they are the authorized representative.



Acceptance

If this proposal is acceptable, please sign one copy and return to us. Feel free to contact me if you have any questions.

Sincerely,

CONCENTRIC INTEGRATION, LLC

Michael D. Klein, PE
President
MDK

CUSTOMER:
CITY OF WOOD DALE

ACCEPTED BY:

TITLE:

Mayor

DATE:

5/21/2020

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