

CITY OF BATAVIA

DATE: February 8, 2019
TO: Committee of the Whole – Utilities (PU)
FROM: Rahat Bari
SUBJECT: Resolution 19-021-R: Authorizing for an amount not to exceed \$98,680.57 to purchase Cisco networking equipment for upgrading City’s Supervisory Control And Data Acquisition (SCADA) system for electric, water and wastewater utilities

Background:

The City has a SCADA system for our City’s electric, Water and Wastewater facilities. SCADA uses computers, network data communications and graphical user interfaces for high level process supervisory management. Through the SCADA system, staff is notified instantly of any irregularities within the system so that corrective actions can be taken immediately.

Budget

Account Number: 21-61-6435 (Electric)
Amount: \$81,930.57

Account Number: 30-72-6340 (Water)
Amount: \$8,375

Account Number: 31-81-6445 (Wastewater)
Amount: \$8,375

Discussion

Currently, each Utility division hosts SCADA separately on multiple servers or personal computers with little ability to failover in case of an emergency. Through Resolution 18-90-R, the City Council approved the purchase of Storage Area Network (SAN) to combine SCADA for all divisions into one hardware platform while creating redundancy in case of system outages. However, another part of SCADA integration is installing network electronics for this SAN. Through these electronics and the city’s fiber network, the City will create a network among city hall, public works and fire station for SCADA system and backup SCADA system. As we are proposing to install new electronics for this new SCADA network, we also evaluated the compatibility of our existing electronics at electric substations. Due to Federal Energy Regulation Commission (FERC) requirements, our electric SCADA network is separate from other utilities SCADA system hence a totally separate network connects all electric substations. Even though city’s electric SCADA is separate, data will need to be hosted in the integrated SAN hence electric data will need to be able to communicate to new SAN. Existing electronics at different substations are almost 9 years old. These old electronics at different substations are obsolete hence will not be able to communicate with the new electronics that will be purchased for new SCADA network.

As a result, after careful considerations, staff is also proposing to replace 9 years old electronics that are currently in place in all our electric substations.

We looked at State of Illinois contract to purchase these electronics from CDW. Interestingly, we found that State bid prices for all these items are higher than purchasing these items directly from CDW-Government. Hence, we propose buying these items directly through CDW-Government. We are attaching the comparison between both prices to this memo. For your reference, the purchase price through state bid would be \$156,000 however we will be obtaining all these electronics through CDW-G for \$98,680.57.

Funds for this expenditure is included in 2019 Budget.

Staff is recommending-

1. Resolution 19-021-R authorizing not to exceed amount \$98,680.57 to purchase Cisco networking equipment for upgrading City's (SCADA) system for electric, water and wastewater utilities

**CITY OF BATAVIA, ILLINOIS
RESOLUTION 19-021-R**

**AUTHORIZING FOR AN AMOUNT NOT TO EXCEED \$98,680.57 TO PURCHASE
CISCO NETWORKING EQUIPMENT FOR UPGRADING CITY'S SCADA
SYSTEM FOR ELECTRIC, WATER AND WASTEWATER UTILITIES**

WHEREAS, the City of Batavia Utility divisions use Supervisory Control and Supervisory Control and Data Acquisition (SCADA) software to provide service to residents; and

WHEREAS, a redundant storage system for the SCADA system will allow City employees to improve services by having increased reliability for these systems; and

WHEREAS, networking electronics are needed to install the redundant storage system; and

WHEREAS, the City of Batavia has identified the need to upgrade networking electronics for the City's current electric SCADA system; and

WHEREAS, CDW has submitted the price of \$98,680.57 to provide the necessary networking electronics to obtain new and replace current equipment; and

NOW, THEREFORE, BE IT RESOLVED, by the Mayor and City Council of the City of Batavia, Kane and DuPage Counties, Illinois, as follows:

SECTION 1: That the Mayor and City Clerk are hereby authorize staff to purchase necessary networking equipment from CDW for an amount not to exceed \$98,680.57.

CITY OF BATAVIA, ILLINOIS RESOLUTION 19-021-R

PRESENTED to and **PASSED** by the City Council of the City of Batavia, Illinois, this 18th day of February 2019.

APPROVED by me as Mayor of said City of Batavia, Illinois, this 18th day of February, 2019.

Jeffery D. Schielke, Mayor

Ward	Aldermen	Ayes	Nays	Absent	Abstain	Aldermen	Ayes	Nays	Absent	Abstain
1	O'Brien					Salvati				
2	Callahan					Wolff				
3	Meitzler					Chanzit				
4	Mallay					Stark				
5	Uher					Theelin Atac				
6	Cerone					Russotto				
7	McFadden					Brown				
Mayor Schielke										
VOTE:		Ayes	Nays	Absent	Abstentions					
Total holding office: Mayor and 14 aldermen										

ATTEST:

Ellen Posledni, City Clerk

Bari, Rahat

From: Davis, Todd
Sent: Wednesday, February 06, 2019 1:44 PM
To: Bari, Rahat; Rogde, Robert
Subject: FW: CDW-G Quote Cisco At State Bid

Here is the same quote at the state bid numbers for comparison.

Todd

From: Jacob George <jacogeo@cdwg.com>
Sent: Wednesday, February 06, 2019 1:41 PM
To: Davis, Todd <TDavis@cityofbatavia.net>
Subject: CDW-G Quote Confirmation: Quote #KKNR108/P.O. Ref. KKMZ070

[**NOTICE:** This message originated outside of the City of Batavia -- **DO NOT CLICK** on links or open attachments unless you are sure the content is safe.]

Thank you for choosing CDW-G. We have received your quote. |
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Review and Complete Purchase

Todd Davis,

Thank you for considering CDW-G for your computing needs. The details of your quote are below. Click the button below to convert your quote to an order.







Convert Quote to Order

Quote #	Quote Date	Quote Reference	Customer #
KKNR108	02/6/2019	KKMZ070	1415590

IMPORTANT — PLEASE READ:

Special Instructions: TAX: MULTIPLE TAX JURISDICTIONS APPLY
TAX: CONTACT CDW FOR TAX DETAILS

Order Details

Item	Qty	CDW #	Unit Price	Ext. Price
 <p>Cisco SMARTnet extended service agreement Mfg. Part#: CON-SNT-WS36513C UNSPSC: 81111812 Electronic distribution - NO MEDIA TAX: BATAVIA, IL .0000% \$.00 Contract: Illinois Cisco (CMS7891190) CDW #: 4298933</p>	4	4298933	\$727.34	\$2,909.36
 <p>Cisco Catalyst 3650-8X24UQ-S - switch - 24 ports - managed - rack-mountable Mfg. Part#: WS-C3650-8X24UQ-S UNSPSC: 43222612 TAX: BATAVIA, IL .0000% \$.00 Contract: Illinois Cisco (CMS7891190) CDW #: 4414164</p>	8	4414164	\$5,262.00	\$42,096.00
 <p>Cisco SMARTnet extended service agreement Mfg. Part#: CON-SNT-WSC3656Q UNSPSC: 81111812 Electronic distribution - NO MEDIA TAX: BATAVIA, IL .0000% \$.00 Contract: Illinois Cisco (CMS7891190) CDW #: 4443691</p>	8	4443691	\$453.46	\$3,627.68
 <p>Cisco - power supply - hot-plug / redundant - 1100 Watt Mfg. Part#: PWR-C1-1100WAC= UNSPSC: 39121004 TAX: BATAVIA, IL .0000% \$.00 Contract: Illinois Cisco (CMS7891190) CDW #: 3003028</p>	14	3003028	\$1,182.00	\$16,548.00
 <p>Cisco - SFP+ transceiver module - 10 GigE Mfg. Part#: SFP-10G-LR= UNSPSC: 43201553 TAX: BATAVIA, IL .0000% \$.00 Contract: Illinois Cisco (CMS7891190) CDW #: 1608748</p>	23	1608748	\$2,484.00	\$57,132.00
 <p>Cisco Catalyst 3650-12X48UQ-E - switch - 48 ports - managed - rack-mountabl Mfg. Part#: WS-C3650-12X48UQ-S UNSPSC: 43222612 TAX: BATAVIA, IL .0000% \$.00 Contract: Illinois Cisco (CMS7891190) CDW #: 4263634</p>	4	4263634	\$8,448.00	\$33,792.00

Subtotal	\$156,105.04
Sales Tax	\$0.00
Grand Total	\$156,105.04

Shipping Info

Shipping Address

100 N Island Ave, Batavia, IL 60510-1972

Phone

(630) 879-1424

Shipping Method

DROP SHIP-GROUND

Payment Terms

Net 30 Days-Govt State/Local



Sales Contact Info


Jacob George

| (866) 682-3510 | jacogeo@cdwg.com

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SPS-OC:002 | SPS 1 | Customer#: 1415590 | SPSc767e2db-eb09-4e97-a86b-718630934965

Bari, Rahat

From: Davis, Todd
Sent: Wednesday, February 06, 2019 10:10 AM
To: Bari, Rahat; Rogde, Robert
Subject: FW: CDW-G Quote for Cisco Gear

This quote includes all of the stuff Bob had on his shopping list and SmartNet support for the switches (1 year, 8x5 next business day).

I didn't do the math on every item, but the most expensive switch is 63% below list! That's quite a discount, and a lot better than the 40% state bid price CDW has. I can't imagine getting a better price anywhere else.

Let me know if you'd like any changes/additions. If you're happy with it, I can have CDW put Bob's name on the quote and change the shipping address to Raddant.

Todd

From: Jacob George <jacogeo@cdwg.com>
Sent: Wednesday, February 06, 2019 9:06 AM
To: Davis, Todd <TDavis@cityofbatavia.net>
Subject: CDW-G Quote Confirmation: Quote #KKMZ070/P.O. Ref. KKMZ070

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Thank you for choosing CDW-G. We have received your quote. | [View in browser](#)



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Review and Complete Purchase

Todd Davis,

Thank you for considering CDW-G for your computing needs. The details of your quote are below. Click the button below to convert your quote to an order.

Convert Quote to Order

Quote #	Quote Date	Quote Reference	Customer #
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KKMZ070	02/6/2019	KKMZ070	1415590
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IMPORTANT — PLEASE READ:

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TAX: CONTACT CDW FOR TAX DETAILS

Order Details

Item	Qty	CDW #	Unit Price	Ext. Price
 <p><u>Cisco SMARTnet extended service agreement</u> Mfg. Part#: CON-SNT-WS36513C UNSPSC: 81111812 Electronic distribution - NO MEDIA TAX: BATAVIA, IL .0000% \$.00 Contract: Illinois Cisco (CMS7891190) CDW #: 4298933</p>	4	4298933	\$690.45	\$2,761.80
 <p><u>Cisco Catalyst 3650-8X24UQ-S - switch - 24 ports - managed - rack-mountable</u> Mfg. Part#: WS-C3650-8X24UQ-S UNSPSC: 43222612 TAX: BATAVIA, IL .0000% \$.00 Contract: Illinois Cisco (CMS7891190) CDW #: 4414164</p>	8	4414164	\$3,294.84	\$26,358.72
 <p><u>Cisco SMARTnet extended service agreement</u> Mfg. Part#: CON-SNT-WSC3656Q UNSPSC: 81111812 Electronic distribution - NO MEDIA TAX: BATAVIA, IL .0000% \$.00 Contract: Illinois Cisco (CMS7891190) CDW #: 4443691</p>	8	4443691	\$430.45	\$3,443.60
 <p><u>Cisco - power supply - hot-plug / redundant - 1100 Watt</u> Mfg. Part#: PWR-C1-1100WAC= UNSPSC: 39121004 TAX: BATAVIA, IL .0000% \$.00 Contract: Illinois Cisco (CMS7891190) CDW #: 3003028</p>	14	3003028	\$747.74	\$10,468.36
 <p><u>Cisco - SFP+ transceiver module - 10 GigE</u> Mfg. Part#: SFP-10G-LR= UNSPSC: 43201553 TAX: BATAVIA, IL .0000% \$.00 Contract: Illinois Cisco (CMS7891190) CDW #: 1608748</p>	23	1608748	\$1,516.35	\$34,876.05

 <p>Cisco Catalyst 3650-12X48UQ-E - switch - 48 ports - managed - rack- mountabl Mfg. Part#: WS-C3650-12X48UQ-S UNSPSC: 43222612 TAX: BATAVIA, IL .0000% \$.00 Contract: Illinois Cisco (CMS7891190) CDW #: 4263634</p>	4	4263634	\$5,193.01	\$20,772.04
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Subtotal	\$98,680.57
Sales Tax	\$0.00
Grand Total	\$98,680.57

Shipping Info

Shipping Address

100 N Island Ave, Batavia, IL 60510-1972

Phone

(630) 879-1424

Shipping Method

DROP SHIP-GROUND

Payment Terms

Net 30 Days-Govt State/Local




Sales Contact Info


Jacob George

| (866) 682-3510 | jacogeo@cdwg.com

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SPS-OC:002 | SPS 1 | Customer#: 1415590 | SPS600ed007-a499-4291-9997-ac76d41fba9a

Network Electronics Required for SCADA/Electric Network
 Two new 10 Gig Rings all new electronics
 New SCADA Server Network
 Replace 9 year old electronics in Electric Network

	CDWG	Qty	Extended	New 10 Gig SCADA Server Network	Replace 9 year old 1 Gig Network
Cisco Catalyst 3650 Series Switches					
WS-C3650-12X48UQ-S 36 - 1 Gig Ports, 12 - 10 Gig Ports, 48 UPOE, 4 - 10 Gig SFP+, IP Base City Hall, West Fire, Public Works, Spare	\$5,193.01	4	\$20,772.04	\$15,579.03	\$5,193.01
CON-SNT-WS36513C SMARTnet for above hardware	\$690.45	4	\$2,761.80	\$2,071.35	\$690.45
WS-C3650-8X24UQ-S 16 - 1 Gig Ports, 8 - 10 Gig Ports, 24 UPOE, 4 - 10 Gig SFP+, IP Base NE Sub, NE Dist Sub, SE Sub, Paramount Sub, Cherry Park Sub, McKee Sub, Main Sub, Spare	\$3,294.84	8	\$26,358.72	\$0.00	\$26,358.72
CON-SNT-WS36513C SMARTnet for above hardware	\$430.45	8	\$3,443.60	\$0.00	\$3,443.60
PWR-C1-1100WAC Power Supply Public Works (2), City Hall (2), NE Sub, NE Dist Sub, SE Sub, Spare, Paramount Sub, Cherry Park Sub, McKee Sub, Main Sub, West Fire (2)	\$747.74	14	\$10,468.36	\$5,234.18	\$5,234.18
SFP-10G-LR= 10 Gig SFP, Single Mode, 10 KM Public Works (4), City Hall (2), NE Sub (2), NE Dist Sub (2), SE Sub (2), Spare, Paramount Sub (2), Cherry Park Sub (2), McKee Sub(2), Main Sub(2), West Fire(2)	\$1,516.35	23	\$34,876.05	\$10,614.45	\$24,261.60
			\$98,680.57	\$33,499.01	\$65,181.56
				50% Electric \$16,749.51	\$65,181.56 100 % Electric
				25% Water \$8,374.75	
				25% Wastewater \$8,374.75	
					\$81,931.07 Electric Total