

**SUBJECT: APPROVAL OF PURCHASE OF EXTREME SWITCH
HARDWARE**

DATE: JANUARY 16, 2024

PRESENTED BY: PAULINA BENNETT, DIRECTOR INFORMATION TECHNOLOGY

SUMMARY:

The IT Department is replacing network switches that serve to connect multiple devices within a local area network (LAN) and forward data frames between them. Switches are a core component of the City's IT infrastructure. Switches reach end of life around 7 years old when the chances for failure and downtime significantly increase. These switches are 8 years old. The switches are also at end of life for support by the vendor.

The IT department will be using the General Services Administration (GSA) to get the benefit of the pricing available through those procurement systems. Information about the GSA contract can be found [here](#) and is approved to be used through the City of Louisville's purchasing policy.

FISCAL IMPACT:

The City of Louisville has allocated \$100,000 in its Capital Improvement Program (CIP) specifically for the replacement of switches, addressing the critical need for upgraded infrastructure. This project was planned through the CIP program in. The total one-time cost for this project is \$120,000.

The cost for the switches is \$107,852.51

The cost for additional hardware such as power supply, mounting hardware, and enclosures is roughly \$7,800. This cost will be incurred later and is estimated.

IT would also like to budget \$4,500 for any unforeseen electrical work. This cost will be incurred later if needed and is considered a contingency.

The total one-time cost for this project is \$120,000. An increase of \$20,000 from the original CIP of \$100,000. The additional funds will be included in a future budget amendment.

PROGRAM/SUB-PROGRAM IMPACT:

IT sub-program goal: To maintain a secure and connected network ensuring all users have appropriate technological resources to effectively perform their jobs.

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RECOMMENDATION:

Staff recommends approving the purchase of extreme switch hardware

ATTACHMENT(S):

1. PCS USA Quote

STRATEGIC PLAN IMPACT:

☐	 Financial Stewardship & Asset Management	☒	 Reliable Core Services
☐	 Vibrant Economic Climate	☐	 Quality Programs & Amenities
☐	 Engaged Community	☐	 Healthy Workforce
☒	 Supportive Technology	☐	 Collaborative Regional Partner



Main: 305-667-0633

Email: npesu@pcsusa.net

Web: www.pcsusa.net

We have prepared a quote for you

2024 LAN Refresh

Quote # 010915
Version 2

Prepared for:

City of Louisville

Prepared by:

PC Solutions & Integration

2024 LAN Refresh

Quote Information:

Quote #: 010915

Version: 2

Delivery Date: 12/08/2023

Expiration Date: 02/29/2024

Prepared for:

City of Louisville

749 Main Street
Louisville, CO 80027
Daniel Wooldridge

dwooldridge@louisvilleco.gov

Prepared by:

PC Solutions & Integration

Nick Pesu
480-549-0029
Fax 305-667-0618
npesu@pcsusa.net

5320

Line #	Part #	Product Description	Price	Qty	Ext. Price
1	5320-16P-4XE	5320 16x10/100/1000Base-T PoE+ ports 4x1GbE SFP ports upgradeable to 10G SFP+ MACsec capable 1 Fixed AC PSU Fans.	\$1,589.15	3	\$4,767.45
2	10061	Pwr Cord,10A,NEMA 5-15P,IEC320-C13	\$6.66	3	\$19.98
3	5320-24P-8XE	5320 24x10/100/1000Base-T PoE+ ports 8x1GbE SFP ports upgradeable to 10G SFP+ MACsec capable 1 Fixed AC PSU Fans.	\$2,044.25	4	\$8,177.00
4	10061	Pwr Cord,10A,NEMA 5-15P,IEC320-C13	\$6.66	4	\$26.64
5	5320-48P-8XE	5320 48x10/100/1000Base-T PoE+ ports 8x1GbE SFP ports upgradeable to 10G SFP+ MACsec capable 1 Fixed AC PSU Fans.	\$3,228.62	9	\$29,057.58
6	10061	Pwr Cord,10A,NEMA 5-15P,IEC320-C13	\$6.66	9	\$59.94
Subtotal:					\$42,108.59

5420

Line #	Part #	Product Description	Price	Qty	Ext. Price
7	5420M-16MW-32P-4YE	ExtremeSwitching 5420M 16 100Mb/1Gb/2.5Gb 802.3bt 90W PoE 32 10/100/1000BASET FDX/HDX PoE+ 2 stacking/SFP-DD 4 10/25G un-pop SFP28 MACsec capable includes fan module 2 un-pop modular PSU slots.	\$4,761.53	7	\$33,330.71
8	XN-ACPWR-920W	920W AC PoE PSU supported on PoE models of 5420 switches	\$590.15	7	\$4,131.05
9	10099	Power Cord, 15A, USA, NEMA 5-15, IEC320-C15	\$14.06	7	\$98.42
Subtotal:					\$37,560.18

7520

Line #	Part #	Product Description	Price	Qty	Ext. Price
10	7520-48Y-8C-AC-F	Extreme 7520-48Y Switch - Ships with two AC front-to-back airflow power supplies, six front-to-back airflow fans, one 4-post rack mount kit. Supports 48 x 1G/10G/25G fiber ports and 8 x 40G/100G fiber ports	\$12,578.15	2	\$25,156.30
11	97004-7520-48Y-8C-AC-F	EW NBD AHR 7520-48Y-8C-AC-F	\$1,500.40	2	\$3,000.80
12	10061	Pwr Cord,10A,NEMA 5-15P,IEC320-C13	\$6.66	4	\$26.64
Subtotal:					\$28,183.74

Quote Summary

Description	Amount
5320	\$42,108.59
5420	\$37,560.18
7520	\$28,183.74
Total:	\$107,852.51

Taxes, shipping, handling and other fees may apply. We reserve the right to cancel orders arising from pricing or other errors.

PC Solutions & Integration