network technologies

Friday, February 3, 2023

Craig Lindholm
City of Mount Vernon

Re: Phases One through Four of our suggested upgrades for the City

Phase One

Recommendations for network infrastructure upgrades

- Replace existing switch in the network cabinet with a 48 port gigabit managed switch.
- Certify existing network CAT5 cables (that will function with the new plan).
- Pull new network CAT6 drops where needed for direct connections to network cabinet switch.
- Replace front wireless access point with a Sophos managed access point.
- Replace council room wireless access point with a Sophos managed access point.

QTY	DESCRIPTION	EACH	TOTAL
1	48 Port Managed POE Switch	$730.00	$730.00
2	1000 ft. Box of CAT6 Cable	$280.00	$560.00
2	Sophos APX 120 Access Point	$221.00	$442.00
25	Labor for cable drops and install of access points (estimate) *	$150.00	$3,750.00
GRAND TOTAL			**$5,482.00**

* All labor estimates are based on our best-guess time estimations and are intentionally biased high!

Phase Two

Recommendations for workstation upgrades

- New workstations for Anita, Rebecca,and Code Enforcement.
- Install MS Office and setup network isolation for the council room PC.

QTY	DESCRIPTION	EACH	TOTAL
3	Custom Network Technologies Workstation	$1,200.00	$3,600.00
4	Microsoft Office 2019 Home and Student	$256.00	$1,024.00
13	Labor to setup new workstations, migrate user data, and install Microsoft Office (estimate) *	$150.00	$1,950.00
GRAND TOTAL			**$6,574.00**

All labor estimates are based on our best-guess time estimations and are intentionally biased high!

Phase Three

Recommendations for server upgrades

- Upgrade the existing server to 32GB ECC RAM.
- Convert existing Microsoft Windows server to a virtual machine (VM).
- Load and configure VMWare ESXi on the existing server hardware to host the Windows server VM.
- Lease Rubicon Delta backup appliance to manage VM and workstation backups.

QTY	DESCRIPTION	EACH	TOTAL
1	32GB DDR4 ECC RAM for existing server	$269.00	$269.00
1	12 month lease for Rubicon Delta backup appliance (estimate)	$2,599.00	$2,599.00
6	Labor for server virtual conversion and setup/configuration of backups (estimate) *	$150.00	$900.00
GRAND TOTAL			**$3,918.00**

All labor estimates are based on our best-guess time estimations and are intentionally biased high!

Phase Four

Recommendations for Antivirus and Cloud Services

- Sophos Endpoint Cloud Managed Antivirus
- Rubicon hosted Email and NextCloud Groupware
- Consider shipping backups to Network Technologies cloud storage for off-site backups.

QTY	DESCRIPTION	EACH	TOTAL
8	Sophos Intercept X Advanced Antivirus desktop- 1-9 users	$69.90	$559.20
1	Sophos Intercept X Advanced Antivirus server	$153.56	$153.56
1	NextCloud Business with Email (10 users 1 year)	$1,999.50	$1,999.50
1	12 months of cloud backup storage (estimate)	$600.00	$600.00
15	Labor for AV, Email, NextCloud setup and configuration of off-site backups (estimate) *	$150.00	$2,250.00
GRAND TOTAL			**$5,712.26**

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If you have any questions please feel free to call us. Thank you for your business.

Sincerely,

Stephen Boorman
903-342-0020 (Office)