Finance Report
for
Server and Switch Purchase

Date: *September 2, 2021*

Purpose: *Purchase of Servers, Telecommunication Switches*

Recommendation: *Approve the Purchases*

Background:

The City periodically has need to upgrade and replace the IT servers, switches, and backup software. Mark Stauffer, IT Services, recently has reviewed the status of our network and telecommunications infrastructure and has found several items that need to be replaced and/or upgraded. The City currently is renting hardware that will be returned upon moving to the new City Hall or has hardware that is nearing the end of the expected useful life. The recommendation is to replace these servers and switches over the next several weeks for the new City Hall to be fully operational. The quoted cost for this hardware and installation is approximately $45,000.

Staff recommends the City Council authorize the purchase of the new computers in an amount not to exceed $50,000.

Regards,

Cade Visser

Cade Visser
Director of Finance

ESTIMATE

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SERVICE FOR/BILL TO:
Ivins City
55 North Main Street
Ivins, UT 84738

ESTIMATE NO.:	83121
SALES PERSON:	Mark
DATE:	8/31/2021
JOB NAME:	Server Equipment

QTY	PARTS DESCRIPTION	PRICE	AMOUNT
1	48 Port PoE Managed Switch (For VOIP Phones)	1,899.00	$ 1,899.00
1	Physical Domain Controller Server	4,968.00	$ 4,968.00
2	Redundant Backup Solution Hardware	5,650.00	$ 11,300.00
1	Redundant Backup Solution Software (**Recurring Monthly Fee**)	119.00	$ 119.00
66	Email Spam Filter with Sandboxing & Email Encryption (**Recurring Monthly Fee**)	3.50	$ 231.00
1	8 Port KVM Switch with Cables, Rack Mount	349.00	$ 349.00
1	2200VA Battery Backup with NIC for Server Rack	1,699.00	$ 1,699.00
1	48 Port Managed Switch (For Computers)	1,499.00	$ 1,499.00
1	New Host Server to Replace VH1 Server	16,979.00	$ 16,979.00
		TOTAL PARTS:	$ 39,043.00

SERVICED BY	LABOR DESCRIPTION	Estimated Man Hrs.	RATE	AMOUNT
IT Services	Installation of new servers and equipment is project labor not covered by the managed service agreement. Time will be billed on a time & materials basis at the discounted labor rate of $100 per man hour.	60.00	$ 100.00	$ 6,000.00
			TOTAL LABOR	$ 6,000.00

CONTRACT TERMS

This estimate is valid only if accepted within ten (10) business days from today's date. Any additions to the above contract shall be charged at rates comparable to the above contract items, or according to standard IT Services rates. Any invoices delivered but not paid within fifteen (15) days will be subject to a finance charge of 1.5% per month and a $15.00 Late Fee, plus costs of collection and reasonable attorney fees.

PARTS	$ 39,043.00
LABOR	$ 6,000.00
SUBTOTAL	$ 45,043.00
TAX RATE	0.00%
TAX	$ -
TOTAL BID	**$ 45,043.00**

Acceptance of Estimate. The above prices, specifications, terms and conditions are satisfactory and are hereby accepted this _____ day of _____, 20___.

Business Name

Personal Guarantor

By: / Title:

Cade Visser

From: Cade Visser
Sent: Wednesday, September 1, 2021 9:38 AM
To: Cade Visser
Subject: RE: Hardware Estimate and Information for City Council

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From: Mark Stauffer <marks@itsou.com>
Sent: Tuesday, August 31, 2021 1:49 PM
To: Cade Visser <cvisser@ivins.com>
Subject: Hardware Estimate and Information for City Council

Cade,
I have attached the updated estimate with today's prices. These can change at any time. Availability of hardware is changing rapidly so we cannot guarantee the availability of this hardware at time of purchase. IT Services will make every effort to acquire the necessary hardware within the estimated values but will have to work around timing and availability constraints.
I have placed items on the estimate in the order of importance.
Here is the description of each item and why it is needed.

48 Port PoE Managed Switch (For VOIP Phones) = This is the device that connects all the phones at each person's desk to the phone service. Without this you have no phones. The current switch that is in use is owned by Lumen and will be removed when the service is canceled so Ivins has to purchase a new PoE switch.

Physical Domain Controller Server = This will be the server that controls usernames and passwords and access to security groups. This controls who can access what on any of the servers. This also hands out the addresses to computers so that they can talk on the network and the Internet. This functionality is currently being done by the old "DocuWare" server that is running Windows Server 2008. DocuWare has been de-commissioned and Windows Server 2008 is no longer supported by Microsoft so it is a security risk to have it running. This new server will be replacing a 9-year-old server.

Redundant Backup Solution Hardware = This is 2 new high-capacity data storage devices to replace the existing backup solution that was implemented 12 years ago, and is no longer sufficient for you data backup needs. These new devices have empty drive bays so we can add storage space as the backup needs increase. This allows us to put one device at the new city office and make backups to that device. We then place the 2nd device in the police department server room and use the fiber connection between the two for sending the same backups to the 2nd device for off-site storage. This eliminates the need for large monthly fees to store the data in the cloud while still providing an off-site backup. The risk this does not cover is a disaster that destroys physical hardware in both buildings at the same time or destroys data in both buildings at the same time. Possible disaster examples would be a major earthquake or an electromagnetic pulse.

Redundant Backup Solution Software = This is a monthly recurring fee for the software that makes the backups of the servers and stores them on the backup device. This includes support for the software and software updates as they are released.

Email Spam Filter with Sandboxing and Email Encryption = A better email spam filter that includes link click protection (sandboxing) and ability to send encrypted messages for everyone. Email scams are the top source for data loss and ransomware so we must implement better email protection. This is a recurring monthly fee based on the number of email accounts you have.

8 Port KVM Switch with Cables, Rack Mount = This is the device that allows us to connect one keyboard, one monitor, and one mouse in the server rack to control all the servers. The existing device that this will replace has failed and no longer works correctly.

2200VA Battery Backup with NIC for Server Rack = This is a new battery backup that will provide battery power to the server rack and allow us to shut down all the servers automatically when the battery power gets low. We don't have that ability with the current batteries that have been in place for many years.

48 Port Managed Switch (For Computers) = This is the device that connects all the computers at the desks to the network and the Internet. The existing switch needs to be replaced before it fails.

New Host Server to Replace VH1 Server = This is a new physical server to replace the existing physical server that is over 7 years old. This physical server will host multiple virtual servers such as the File Server, the Pelorus Server, the WiFi controller server, and a backup Domain Controller server. If the existing server dies, you will have a long period of down time while we try to get a new server delivered and set up to replace it. Replacing this aging server pro-actively is the way to have a smooth transition and minimize down time. This new server is also much faster than the existing server so it can help to increase productivity by reducing wait times for files and software access.

Please let me know if you have any questions or need any more explanation.

Thanks

Mark Stauffer
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