

RESOLUTION 23-87

A RESOLUTION AUTHORIZING AN EXPENDITURE FOR UPDATING SERVER SCHEMA AND BACKUP SOLUTION

WHEREAS, the City of Spring Hill server infrastructure is near end-of-life; and

WHEREAS, the City of Spring Hill Board of Mayor and Aldermen authorized VC3 to oversee the updating of the city's infrastructure; and

WHEREAS, funding for these items is included within the IT Department budget.

NOW, THEREFORE BE IT RESOLVED, by the Board of Mayor and Aldermen of the City of Spring Hill, Tennessee that an expenditure of approximately \$177,007.00 is hereby authorized for the purchase to upgrade server schema with backup solution and support from VC3, as recommended by staff.

Passed and adopted by the Board of Mayor and Aldermen of the City of Spring Hill, Tennessee, this 15th day of May 2023.



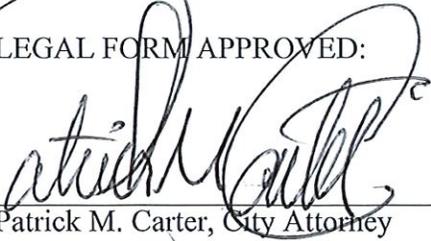
Jim Hagaman, Mayor

ATTEST:

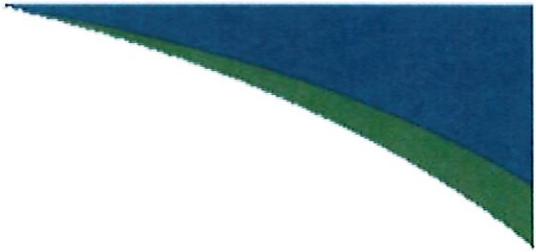


April Goad, City Recorder

LEGAL FORM APPROVED:



Patrick M. Carter, City Attorney



STAFF MEMORANDUM

TO: Board of Mayor and Alderman
FROM: Tony Tolstedt, Assistant City Administrator
DATE: May 12, 2023
RE: Resolution 23-87

PURPOSE:

This project will replace most existing server hardware, upgrade Operating Systems, and provide a new network attached storage device for the PD Video footage. This sets the city up for the next 5 years as it relates to server hardware. There are a few servers that are running Server 2016 or 2019 that will need to be upgraded down the road. This quote covers the installation of a new ESRI/ ArcGIS virtual server and a new virtual accounting server. The proposed project includes all server upgrades and licensing.

BACKGROUND:

Server Project (Total \$177,007.00 – hardware & labor – estimated 195 hours total expenditure)

Server hardware replacement and operating system upgrades – Budget \$166,895

- All on-premises servers, including Tyler Energov.
- Risk:
 - Server hardware is under resourced.
 - This leads to network slowness when processing files and accessing information.
 - Server Operating Systems are all running Server 2012 Standard.
 - Microsoft will no longer provide security updates to this operating system or application.
 - This presents a risk of vulnerability exploitation by external sources that could compromise the network.



OFFICE OF THE CITY ADMINISTRATOR

199 Town Center Parkway • Spring Hill, Tennessee 37174

931-486-2252, ext 215

www.springhilltn.org

- Recommendation:
 - Replace server hardware with physical host servers and one backend SAN (Storage Area Network) to support a virtual server environment with built in high availability.
 - Create new virtual servers.
 - Upgrade all operating systems to Server 2019 or 2022.
 - Work with Tyler systems on software migration.
- Timeframe:
 - Once approved, server hardware is received, estimated project duration 4-6 weeks assuming no unexpected hiccups.

Police Department video camera footage – Budget \$10,112.00

- Risk:
 - The current solution is out of date and needs room for expansion.
- Recommendation:
 - Replace with new hardware and adequate storage for future needs and provides warranty.
- Timeframe:
 - Once approved, hardware is received, project estimated duration is 2-4 weeks assuming no unexpected interruptions.

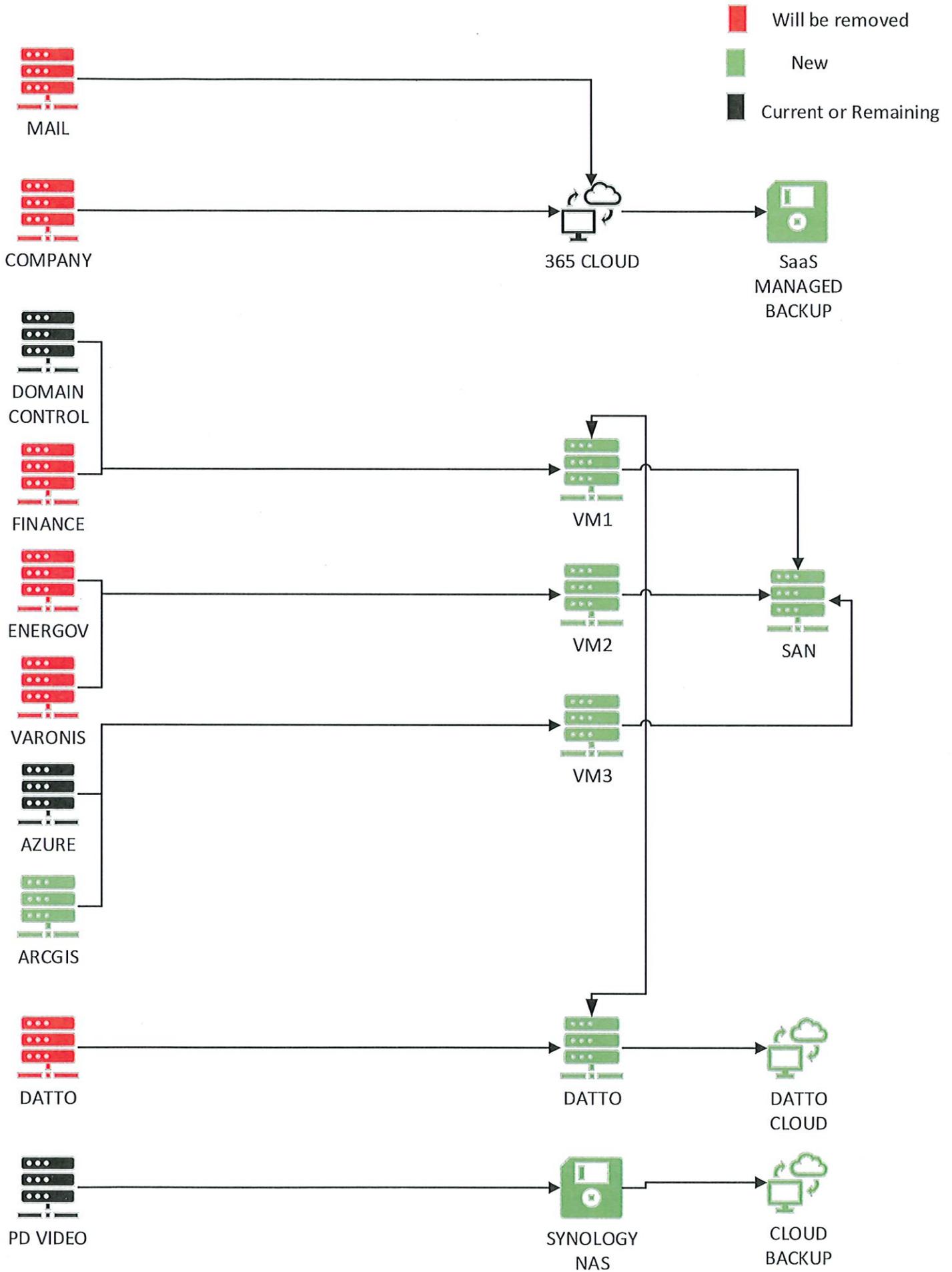
FINANCIAL IMPACT:

The proposed project cost is provided for in the attached quote and totals \$177,007.00 for the denoted equipment and improvements as provided in the provided attachments. The quote includes both the denoted equipment and the labor necessary to implement the improvement. Monies are budgeted for this improvement in the current year's budget. The item in budget in the current year via 110-41641-59421 (Machinery and Equipment). \$200,000 was budgeted with \$190,210.50 remaining in the line.

Previously provided information on additional portions of forthcoming project improvements are provided separately. This includes the switch change portion of the project and the upgraded storage solutions as denoted at the 5/1/2023 BOMA meeting.

STAFF RECOMMENDATION:

Staff recommends approval of Resolutions 23-87 as presented.



QUOTE



VC3 Inc.
1301 Gervais Street Suite 1800
Columbia, South Carolina 29201

Phone: 803-733-7333
Fax: 803-733-5888

Customer:

City of Spring Hill, TN
199 Town Center Pkwy.
P.O. Box 789
Spring Hill, TN 37174
United States

Account Manager	Date	Quote #	Terms
Aimee Gratz	Mar 3, 2023	VC3Q25661	Net 15

Line	Qty	Description	Unit Price	Ext. Price
1		Hardware and Licensing		
2	1	Dell PowerVault ME5024 Storage Array **Estimated ship date: 4/26/23	\$35,952.00	\$35,952.00
3	3	Dell PowerEdge R750 Server **Estimated ship date: 5/10/23	\$10,951.00	\$32,853.00
4	3	Dell HBA355e Adapter Low Profile/Full Height **Estimated ship date: 4/18/23	\$395.00	\$1,185.00
5	6	Dell 12Gb HD-Mini to HD-Mini SAS Cable 2M **Estimated ship date: 4/24/23	\$46.00	\$276.00
6	1	Synology SAN/NAS Storage System - AMD Ryzen V1500B Quad-core (4 Core) 2.20 GHz - 8 xHDD Supported - 0 xHDD Installed - 8 xSSD Supported - 0 x SSD Installed - 4 GB RAM DDR4 SDRAM - Serial ATA Controller - RAID Supported 0, 1, 5, 6, 10, Basic, Hybrid RAID, JBOD - 8 x Total Bays - 8 x 2.5"/3.5" Bay - 1 x Total Slot(s) - Gigabit Ethernet - eSATA - 2 USB Port(s) - Network (RJ-45) - DiskStation Manager - CIFS, AFP, NFS, FTP, WEBDAV, SMB 1.0, SMB 2.0, SMB 3.0, NFSv3, NFSv4, NFSv4.1, .	\$2,066.00	\$2,066.00
7	8	Synology 16 TB Hard Drive - 3.5" Internal - SATA (SATA/600) - Server, Storage System Device Supported - 7200rpm - 550 TB TBW	\$733.00	\$5,864.00
8	1	Vmware vSphere v. 8.0 Essentials Plus Kit - License - 3 Host (Up to 2 Processors per Host)	\$5,069.00	\$5,069.00
9	1	Vmware Support and Subscription Production - 1 Year - Service - 24 x7 x30 Minute - Technical	\$1,342.00	\$1,342.00
10	36	Microsoft Windows Server 2022 Data Center 2-Core License	\$819.00	\$29,484.00
11	240	Microsoft Windows 2022 Server Client Access License, Commercial	\$49.00	\$11,760.00
12	4	Microsoft SQL Server 2022 Standard 2 Core License Pack, CSP	\$4,191.00	\$16,764.00

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*** Hardware will be invoiced upon ordering.

This Quote is part of, and incorporated into, the Master Services Agreement between Customer and VC3, Inc., and is subject to the terms and conditions of the Agreement and any definitions contained in the Agreement. If any provision of this Quote conflicts with the Agreement, the terms and conditions of this quote shall control.

Printed Name

Signature

Date

Line	Qty	Description	Unit Price	Ext. Price
13		Professional Services to Upgrade Servers		
14	1	Fixed Fee to set up, configure, and install new servers (includes labor, travel time and project management hours - estimated at 195 hours)	\$34,392.00	\$34,392.00

Total	\$177,007.00
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Shipping and sales tax not included.

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