

## Request for Legislative Action

Res. #21366

Sponsor: Sean E. Smith

Date: August 14, 2023

### Completed by County Counselor's Office

Action Requested:	Resolution	Res.Ord No.:	21366
Sponsor(s):	Sean E. Smith	Legislature Meeting Date:	8/14/2023

### Introduction

**Action Items:** ['Authorize', 'Transfer']

**Project/Title:**

Authorizing the Director of Finance to make a payment to the Kansas City Police Department in the amount of \$1,522,693.97 from appropriated 911 funds for the purpose of replacing servers critical to the operation of the 911 system in Kansas City, Missouri

### Request Summary

This resolution requests the authorization for the Director of Finance to reimburse the Kansas City Police Department up to \$1,522,694 to replace the KCPD Unified Computing System (UCS). The KCPD UCS was purchased approximately 10 years ago with a manufacturer recommended 5-year life span. The UCS, which is now at full capacity, has long surpassed the recommended replacement period and is beginning to fail intermittently. The UCS houses all the "blade servers" and "virtual servers" on the KCPD network, to include the Communications Unit Hexagon CAD virtual server. If the USC were to fail, it would cause the shutdown of the Communications Unit 911 CAD system. This shutdown could be detrimental and result in a potential safety risk to not only community members who need police response, but to the responding officers, as well. A recent failure of the system required call takers to handwrite 911 requests and hand them to dispatchers for emergency response.

KCPD received quotes for the UCS replacement and would like to proceed with the option provided by CISCO through Converge One due to lower cost and current server adaptability. The total project cost was quoted at \$1,522,693.97. This cost cannot be absorbed by KCPD's annual budget and therefore was requested through the City of Kansas City, however they refused to fund this need.

As of July 31, 2023, a total of \$2,404,926 remains available in the FY 2023 allocation for improvements to the County 911 System,

### Contact Information

<b>Department:</b>	County Executive Office	<b>Submitted Date:</b>	8/2/2023
<b>Name:</b>	Troy Schulte	<b>Email:</b>	TSchulte@jacksongov.org
<b>Title:</b>	County Administrator	<b>Phone:</b>	816-881-1079

### Budget Information

Amount authorized by this legislation this fiscal year:	\$1,522,694
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## Request for Legislative Action

Amount previously authorized this fiscal year:			\$ 0
Total amount authorized after this legislative action:			\$1,522,694
Is it transferring fund?			Yes
<b>Transferring Fund From:</b>			
Fund:	Department:	Line Item Account:	Amount:
031 (E-911 System Fund)	5031 (Emergency 911 System)	56430 (Telephone Utility)	\$1,522,694
<b>Transferring Fund To:</b>			
Fund:	Department:	Line Item Account:	Amount:
031 (E-911 System Fund)	5031 (Emergency 911 System)	56070 (Intergovernmental Agreements)	\$1,522,694

<b>Prior Legislation</b>	
<b>Prior Ordinances</b>	
Ordinance:	Ordinance date:
<b>Prior Resolution</b>	
Resolution:	Resolution date:

<b>Purchasing</b>	
Does this RLA include the purchase or lease of supplies, materials, equipment or services?	Yes
Chapter 10 Justification:	Purchase from Another Government
Core 4 Tax Clearance Completed:	Not Applicable
Certificate of Foreign Corporation Received:	Not Applicable
Have all required attachments been included in this RLA?	Yes

<b>Compliance</b>	
<b>Certificate of Compliance</b>	
Not Applicable	
<b>Minority, Women and Veteran Owned Business Program</b>	
Goals Not Applicable for following reason: Contract is with another government agency	
MBE:	.00%
WBE:	.00%
VBE:	.00%
<b>Prevailing Wage</b>	

## Request for Legislative Action

Not Applicable	
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### Fiscal Information

- Funds sufficient for this appropriation and/or transfer are available from the source indicated on the budget information tab.

### History

Submitted by County Executive Office requestor: Troy Schulte on 8/2/2023. Comments:

Approved by Department Approver Sylva Stevenson on 8/2/2023 10:27:50 AM. Comments:

Returned for more information by Purchasing Office Approver Barbara J. Casamento on 8/2/2023 12:08:22 PM. Comments: In the Request Summary: first sentence, Unified is misspelled

Submitted by Requestor Troy Schulte on 8/2/2023 1:21:25 PM. Comments:

Approved by Department Approver Troy Schulte on 8/2/2023 1:24:47 PM. Comments:

Approved by Purchasing Office Approver Barbara J. Casamento on 8/2/2023 3:50:42 PM. Comments:

Approved by Compliance Office Approver Melinda K. Bolling on 8/2/2023 4:01:36 PM. Comments:

Approved by Budget Office Approver David B. Moyer on 8/3/2023 11:04:57 AM. Comments:

Approved by Executive Office Approver Sylva Stevenson on 8/3/2023 11:16:14 AM. Comments:

Approved by Counselor's Office Approver Jamesia Manning on 8/10/2023 12:25:00 PM. Comments:

### Fiscal Note:

Funds sufficient for this transfer are available from the sources indicated below.

PC# 503123001 000

Date: August 3, 2023

RES # 21366  
eRLA ID #: 1036

<u>Org Code/Description</u>	<u>Object Code/Description</u>	<u>From</u>	<u>To</u>
<b><u>031</u></b> <b><u>E-911 System Fund</u></b>			
<u>5031</u> <u>Emergency 911 System</u>	<u>56430</u> <u>Telephone Utility</u>	<u>\$ 1,522,694</u>	<u>\$ -</u>
<u>5031</u> <u>Emergency 911 System</u>	<u>56070</u> <u>Intergovernmental Agreements</u>		<u>1,522,694</u>
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<u> </u>	<u> </u>	<u> </u>	<u> </u>
		<u>\$ 1,522,694</u>	<u>\$ 1,522,694</u>

### Fiscal Note:

This expenditure was included in the Annual Budget

PC#  

<u>Org Code/Description</u>	<u>Object Code/Description</u>	<u>Not to Exceed</u>
<b><u>031</u></b> <b><u>E-911 System Fund</u></b>		
<u>5031</u> <u>Emergency 911 System</u>	<u>56070</u> <u>Intergovernmental Agreements</u>	<u>\$ 1,522,694</u>
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		<u>\$ 1,522,694</u>

**APPROVED**

*By David Moyer at 11:02 am, Aug 03, 2023*

Budget Office

# Police

## KC/MO

**Stacey Graves**  
Chief of Police

**Chief's Office**  
1125 Locust  
Kansas City, Missouri 64106  
[www.kcpd.org](http://www.kcpd.org)

Office (816) 234-5010  
Fax (816) 234-5013

July 19, 2023

Mr. Frank White Jr.  
Jackson County Executive

The Kansas City, Missouri Police Department (KCPD) respectfully requests consideration for funding from Jackson County, Missouri for the immediate need for the replacement of the KCPD Unified Computing System (UCS). The KCPD UCS was purchased approximately 10 years ago with a manufacturer recommended 5-year life span. The UCS, which is now at full capacity, has long surpassed the recommended replacement period and is beginning to fail intermittently. The UCS houses all the "blade servers" and "virtual servers" on the KCPD network, to include the Communications Unit Hexagon CAD virtual server. If the USC were to fail, it would cause the shutdown of the Communications Unit 911 CAD system. This shutdown could be detrimental and result in a potential safety risk to not only community members who need police response, but to the responding officers, as well.

KCPD received quotes for the UCS replacement and would like to proceed with the option provided by CISCO through Converge One due to lower cost and current server adaptability. The total project cost was quoted at \$1,522,693.97. This cost cannot be absorbed by KCPD's annual budget and therefore was requested through the City of Kansas City, however, their budget was unable to cover this extra request.

After conversations with Jackson County Administrator Troy Schulte, we have been informed the Jackson County 911 tax funds would be an appropriate funding source for this request. Therefore, the Kansas City, Missouri Police Department respectfully requests your consideration for the project funding with Jackson County 911 tax funds in the amount of \$1,522,693.97 so we are able to continue providing efficient police services to the residents of Jackson County, Missouri.



Stacey Graves  
Chief of Police



**Kansas City, Missouri Police Department  
MEMORANDUM**

January 9, 2023

RECEIVED

Information Services

EXECUTIVE SERVICES

BUREAU #84

DEC 13 2023

**To: Captain John Beck, Information Services Division**

**From: Jackie Chapman-Fagan, Supervisor Network Infrastructure Services**

**Subject: Unified Computing System (UCS) End of Life**

KCPD's Unified Computing System (UCS) servers' chassis and M4 blades are at end-of-life and need to be replaced. This will help the Department remain in compliance with MULES, CJIS, Best Business Practices, Network Security, Homeland Security and be able to prevent catastrophic outages and maintain network security. The replacement of these servers will further allow for growth for the KCPD's server farm environment for projects that are currently holding for server resources.

The UCS currently holds over 200 servers and is a vital part of the KCPD's infrastructure and business continuity. The servers' virtual environment allows for main server resources to be utilized for different functions and applications throughout the KCPD. If this environment should break, it would create a work stoppage for key applications such as Exchange, Niche and CAD, among others. In addition, files and folders on storage drives would be inaccessible, logging into the network would become almost nonexistent, and the servers and applications would be vulnerable to hacks and data loss.

Pursuing a virtual server environment replacement as opposed to a physical server environment is strongly recommended. There is a substantial cost savings for the Department in computer hardware, software and licensing.

Individual physical servers would cost approximately \$10,000 each for hardware and software, resulting in a total of \$2 million for the 200 servers currently needed. This cost does not include other necessary components such as racks, network switches, cabling or future growth abilities. Additional manpower would feasibly be needed to properly manage and maintain the physical servers, as well. Finally, new servers will be needed once a physical server runs out of resources instead of having available resources to allocate as needed.

Network Infrastructure has worked with local vendors to obtain pricing and services costs to replace the UCS virtual server environment. Logicalis has submitted 2 proposal. One for a UCS replacement and the other using alternate Dell equipment. The Dell equipment quote is not an equal comparison to the UCS server replacement. Using the Dell equipment is **not** a recommended approach to this replacement. The Dell solution uses multiple individual Dell servers or large capacity grouped together to mimic a UCS blade server environment. This solution has disadvantages such as requiring more licensing, additional yearly reoccurring cost and the servers do not have the same growth abilities as the USC blade servers for the physical hardware. The ability to increase resources on servers is one of the main reasons for going with

UCSX servers. This is a necessity for KCPD especially with applications such as NICHE. KCPD has had Dell physical hardware in the past. The Dell server hardware proved to have higher failure rates compared to the UCS blade servers and the life of the Dell servers only last 3 years before full replacements were having to be purchased. The Dell servers will add approximately 70,000+ to reoccurring cost each year for licensing, there is no expectation the Dell servers will perform and last the 8+ years like Cisco equipment has based upon past experience with Dell equipment. These servers take up more space in the racks and data enter creating the need to reconfigure the Data Center at Shoal Creek.

The Logicalis proposals do not include the upgrade and reconfiguration of VDI as requested. Logicalis does not have the experience or knowledge of KCPD's network. KCPD has had no successful projects to date with Logicalis. In working with Logicalis on the proposal, the overall goal of Logicalis was to present low bids. On a project of this size and cost, it is of the utmost importance a vendor is selected for the best possible solution for KCPD at the best cost.

Logicalis Dell Server Solution:

Dell Servers	\$ 629,477.85
Nexus Switches	\$ 144,845.84
Logicalis Services	\$ 27,742.00
Microsoft Data Center Licensing	\$ 393,753.60
Electrical Requirement Changes HQ	\$ 13,608.00
Electrical Requirement Changes SC	<u>\$ 16,648.00</u>
<b>Logicalis Dell Proposal</b>	<b>\$1,226,075.29</b>

Logicalis Cisco UCS Server Solution:

UCSX Servers	\$1,844,568.24
Nexus Switches	\$ 144,845.84
Logicalis Services	\$ 27,742.00
Microsoft Data Center Licensing	\$ 393,753.60
Electrical Requirement Changes HQ	\$ 13,608.00
Electrical Requirement Changes SC	<u>\$ 16,648.00</u>
<b>Logicalis Cisco UCS Proposal</b>	<b>\$2,428,917.68</b>

Converge One is a long-time vendor of KCPD's and has had several successful IT infrastructure projects. Converge One installed the current UCS Server farm when they were operating under AOS. NISS reached out to Converge One for a quote as well. The following is a complete turn-key fixed bid quote for all needed hardware, software, licensing and services. Converge One also acknowledged the need to upgrade the current VDI system that resides on the UCS servers and configure VDI to give KCPD options of expanding growth and uses of VDI for failover and remote work situations.



Converge One Cisco UCS Server Solution:

UCSX

Hardware & VMWare Software w/Services	\$1,201,733.09
Microsoft Data Center Licensing	\$ 315,002.88
Electrical Requirement Changes HQ	\$ 3,629.00
Electrical Requirement Changes SC	\$ 2,329.00
<b>Converge One Cisco UCSX</b>	<b>\$1,522,693.97</b>

The Microsoft Data Center licensing pricing is through the current EA (EA#5327442) with software Assurance.

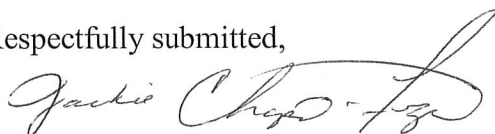
The following projects are on hold or cannot be fully implemented due to the lack of resources on the current UCS servers:

<b>Project</b>	<b>No. Servers Needed</b>
• Arbitrator in-car and body worn camera system	3 additional servers
• Source One replacement	8 requested
• Motorola CAD Solution	9 at least-- possible more

I recommend working with Converge One on the UCS project. This project is critical to get completed correctly in a timely manner before a critical outage occurs. The current UCS servers have many components that are already at end-of-life and the other components that are not at end-of-life will be this year. I further recommend going with the Cisco UCSX equipment based on the durability and known life span and growth of Cisco equipment. Dell equipment has historically failed after approximately 3 years in production. Some Dell servers have lasted less than the 3 years. The Virtual server environment this equipment support is critical to KCPD. A failure of any of this production equipment could create long outages for critical servers such as CAD, RMS and Exchange email. The ability to failover to other server resources and to increase resources and move resources the UCSX servers provide is critical to KCPD's business continuity plans. Converge One proposal also includes upgrading the current VDI environment and configuring a failover VDI environment with remote access capabilities for further options for business continuity. KCPD has not engaged Logicalis in any IT project and has not worked with the deployment engineers on the Logicalis team. It is not recommended to use a new vendor that has no hands-on knowledge or work experience with KCPD's network on a project of this magnitude.

I recommend purchasing the Converge One UCSX server replacement proposal and using the Converge One engineers for professional services on this project.

Respectfully submitted,

  
Jackie Chapman-Fagan, Supervisor  
Network Infrastructure Services