



## Village of Itasca

550 W. Irving Park Rd.

Itasca, IL 60143

630.773-0835 • www.itasca.com

### MEMORANDUM

**TO:** Village Board  
**FROM:** Dan Corcoran IT Director Village of Itasca  
**DATE:** March 14, 2019  
**SUBJECT:** Proposal for Upgrade of Virtual Server and Physical Server Replacement

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#### **Introduction**

This proposal is the last part of a network server upgrades approved in the Capital Improvement Plan and budgeted for this year. It will replace existing hardware and upgrade older non-supported equipment.

#### **Discussion**

In our continuing effort to make the Village system a standard consistent platform and plan for future growth or future migration to the cloud, the IT Department proposes the replacement of an existing physical server. This server is currently housing two virtual servers, one that hosts the police squad video. This upgrade will allow faster allocation of storage and migration of current physical server to the virtual environment. The server is end of life as of November 2019 and will become more costly to support.

When replacing the server, we will be changing from the virtual VMware platform to the more common Microsoft Hyper-V platform and migrating one current physical server, the one that hosts MSI to the virtual environment. Moving the server that contains MSI is important for future growth as this system would house a replacement ERP system or the data that that is needed for a cloud solution. (This server will be included in an operating system upgrade in the 2019/20 budget.)

Enhanced Networks has provided the proposal for the work and equipment. The Village IT Director will work with them during the upgrade and coordinate with village staff on installation and downtime.

#### **Fiscal Impact**

The proposed cost is \$50,044.40 that includes equipment, licensing, software, configuration and consulting.

#### **Staff Recommendation**

The Information Technology staff recommends that the Village Board accepts the Host Replacement Proposal at the Committee of the Whole on March 19, 2019 for consideration an approval.

#### **After Action Steps**

File Executed Contract with Deputy City Clerk - IT



**Enhanced Networks, Inc.**  
 25659 Hillview Court  
 Mundelein, IL 60060  
 (847) 393-7008  
[www.enhancednetworks.com](http://www.enhancednetworks.com)

## 2019 Virtual Host Replacement – VMware to Hyper-V

**Owner: Village of Itasca**

**Job No. 0781480**

**SCOPE:** Enhanced Networks, Inc. will design the configuration and specify the hardware/software for the Village of Itasca 2019 Virtual Host Replacement – VMware to Hyper-V. Enhanced Networks will provide all the hardware/software listed in the table below. All hardware/software will be registered in the Village of Itasca’s name with the site contact Dan Corcoran.

This project consists of migrating one existing VMware virtual machine, which contains the Arbitrator police video recording server to Microsoft’s Hyper-V virtual machine technology. The existing HP DL370 VMware host will be decommissioned as its extended warranty ends 11-18-2019. The Dell PowerEdge R740 Hyper-V host will house Microsoft Server 2019 Standard. This project also consists of a physical migration of one of the existing servers “dc1” to the new Dell PowerEdge R740 Hyper-V host architecture. Enhanced Networks, Inc. will work with Dan Corcoran during this migration. Dan will be responsible for scheduling and coordination with all Village staff.

This Server is scalable. It can house sixteen hard drives. Currently there are only 10 spec’d with this server. The Village can use this for emergency disk to vhd services of other aging servers as well as future expansion for data.

Manufacturer	Description	Qty.	Price	Total
Dell	PowerEdge R740 (See Specs)	1	\$21,672.40	\$21,672.40
Microsoft	Server 2019 with Server 2019 User Cals	1	\$6,762.40	\$6,762.40
Dell	2 post rail kit	1	\$159.60	\$159.60
Misc.	Misc. Cable Management	1	\$150.00	\$150.00
Enhanced Networks, Inc.	Labor	1	\$21,300.00	\$21,300.00

\*Hardware/software pricing is good for 30 days from 3-4-2019

**Total \$50,044.40**

### Terms and Conditions

See Attachment A.



Enhanced Networks, Inc.

25659 Hillview Court

Mundelein, IL 60060

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## Time Period and Payment

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Start Date: **date check received**

End Date: **10 weeks after start**

This project will begin the date the proposal is signed and returned to Enhanced Networks, Inc with hardware/software payment in full (**\$28,744.40**). Project is estimated to be completed within 10 weeks after start. Enhanced Networks will communicate with Owner contact Dan Corcoran throughout the entirety of this project until completion. Owner (Dan) will be kept apprised of any unforeseen delays. In order to complete the project in the estimated weeks, the owner will need to supply Enhanced Networks, Inc. with physical access to the server area and network cabinet. This may require nonstandard business hours' access including weekends. The owner will be invoiced for all labor after project completion. Labor total is **\$21,300.00**

## Authorization

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The undersigned hereby enter into the agreement as described herein:

Owner:

Enhanced Networks:

\_\_\_\_\_  
*Authorization By*

\_\_\_\_\_  
*Date*

A handwritten signature in black ink, appearing to be "V. Corcoran".

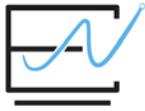
\_\_\_\_\_  
*Authorization By*

1-29-2019

\_\_\_\_\_  
*Date*

## Attachment A - STANDARD TERMS & CONDITIONS

1. The submitted Replace 0781480 ITASV - 2019 Virtual Host Replacement and Attachments A constitute and are herein referred to as the Agreement.
2. Enhanced Networks Inc. is herein referred to as Enhanced Networks, and the party with whom Enhanced Networks is entering into this Agreement is herein referred to as OWNER.
3. Enhanced Network's will submit requests for payment as indicated in the Agreement. Payments shall be due and owing by the OWNER upon receipt of Enhanced Network's invoice for services. Payments to Enhanced Network's after (30) consecutive calendar days from the date of Enhanced Network's invoice for services shall include an additional late payment charge computed at an annual rate of three percent (3%) from date of Enhanced Network's invoice; and Enhanced Network's may, after giving ten (10) days written notice to the OWNER, suspend services under this Agreement until Enhanced Network's has been paid in full all amounts due for services, expenses, and late payment charges.
4. This Agreement may be terminated, in whole or in part, by either party if the other party substantially fails to fulfill its obligations under this Agreement through no fault of the terminating party; or the OWNER may terminate this Agreement, in whole or in part, for its convenience. However, no such termination may be affected unless the terminating party gives the other party: (1) not less than ten (10) calendar day's written notice by certified mail of intent to terminate, and (2) an opportunity for a meeting with the terminating party before termination. If this Agreement is terminated by either party, Enhanced Network's shall be paid for services performed to the effective date of termination, including reimbursable expenses. In the event of contract termination, the OWNER shall receive reproducible copies of Drawings, Custom Developed Applications and other documents completed by Enhanced Network's.
5. Enhanced Networks agrees to hold harmless and indemnify the OWNER and each of its officers, agents and employees from any and all liability claims, losses, or damages, to the extent that such claims, losses, or damages are caused by Enhanced Network's negligence in the performance of the services under this Agreement, but not including liability that may be due to the sole negligence of the OWNER or other consultants, contractors or subcontractors working for the OWNER, or their officers, agents and employees. In the event claims, losses, or damages are caused by the joint or concurrent negligence of Enhanced Networks and the OWNER they shall be borne by each party in proportion to its negligence.
6. The OWNER acknowledges that Enhanced Network's is an S Corporation, and further acknowledges that the corporate entity, as the party to this contract, expressly avoids contracting for individual responsibility of its officers, directors, or employees.
7. The OWNER and Enhanced Network's agree that any claim made by either party arising out of any act of the other party, or any officer, director, or employee of the other party in the execution or performance of the Agreement, shall be made solely against the other party and not individually or jointly against such officer, director, or employees.
8. For the duration of the contract, Enhanced Network's shall procure and maintain insurance for protection from claims under worker's compensation acts, claims for damages because of bodily injury including personal injury, sickness or disease or death of any and all employees or of any person other than such employees, and from claims or damages because of injury to or destruction of property including loss of use resulting therefrom, alleged to arise from Enhanced Network's negligence in the performance of services under this Agreement. The OWNER shall be named as an additional insured on Enhanced Network's general liability insurance policy. The limits of liability for the insurance required by this Subsection are as follows: General Liability: \$1,000,000 per claim \$2,000,000 aggregate.
9. Notwithstanding any other provision of this Agreement, and to the fullest extent permitted by law, the total liability, in the aggregate, of Enhanced Network's and their officers, directors, employees, agents, and any of them, to the OWNER and anyone claiming by, through or under the OWNER, for any and all claims, losses, costs or damages whatsoever arising out of, resulting from or in any way related to the project or the Agreement from any cause or causes, including but not limited to the negligence, professional errors or omissions, strict liability or breach of contract or warranty expressed or implied of Enhanced Network's or their officers, directors, employees, agents or any of them, hereafter referred to as the "OWNER's Claims", shall not exceed the total insurance proceeds available to pay on behalf of or to Enhanced Network's by their insurers in settlement or satisfaction of OWNER's Claims under the terms and conditions of Enhanced Network's insurance policies applicable thereto, including all covered payments made by those insurers for fees, costs and expenses of investigation, claims adjustment, defense and appeal.
10. Enhanced Network's is responsible for the quality, technical accuracy, timely completion, and coordination of all Designs, Drawings, Custom Developed Applications and other services furnished or required under this Agreement, and shall endeavor to perform such services with the same skill and judgment which can be reasonably expected from similarly situated professionals. If the Owner considers that Enhanced Network's has not complied with this condition, then the Owner is required to notify Enhanced Network's in writing (or e-mail) of the specific service not in compliance, at which time Enhanced Network's will correct the issue or provide reasoning as to why the service is considered compliant.
11. Enhanced Network's is not responsible for any infringements to third party copyrights, patents, or trade secrets where the Owner has made amendments to the original documents associated with such copyrights, patents or trade secrets.
12. The OWNER may, at any time, by written order, make changes within the general scope of this Agreement in the services to be performed by Enhanced Network's. If such changes cause an increase or decrease in Enhanced Network's fee or time required for performance of any services under this Agreement, whether or not changed by any order, an equitable adjustment shall be made and this agreement shall be modified in writing accordingly. No service for which an additional compensation will be charged by Enhanced Network's.
13. All Drawings, Custom Developed Applications, and other documents prepared or furnished by Enhanced Network's pursuant to this Agreement are instruments of service in respect to the project, and Enhanced Network's shall retain the right of reuse of said documents and electronic media by and at the discretion of Enhanced Network's whether or not the project is completed. Electronic copies of Enhanced Network's documents for information and reference in connection with the use and occupancy of the project by the OWNER and others shall be delivered to and become the property of the OWNER; however, Enhanced Network's documents are not intended or represented to be suitable for reuse by the OWNER or others on additions or extensions of the project, or on any other project. Any such reuse without verification or adaptation by Enhanced Network's for the specific purpose intended will be at the OWNER's sole risk and without liability or legal exposure to Enhanced Network's, and the OWNER shall indemnify and hold harmless Enhanced Network's from all claims, damages, losses and expenses including attorneys' fees arising out of or resulting therefrom.
14. Enhanced Network's will make good any defect due to improper materials or workmanship supplied by Enhanced Network's without expense to the Owner for one (1) year after the OWNER's acceptance of the service. The warranty covers only defects in material and workmanship on products purchased and fully installed by Enhanced Network's and does not cover defects caused by improper use, abuse, accident, acts-of-God (including but not limited to lightning), alteration, or other conditions beyond Enhanced Network's control, as determined by Enhanced Network's.
15. Standard Hours are considered Monday - Friday 7:30 am to 5:00 pm, excluding the following holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Thursday and Friday, and Christmas Day. If a holiday falls on a Saturday, the preceding Friday shall be considered a holiday; if a holiday falls on a Sunday, the following Monday shall be considered a holiday.
16. Any provision or part thereof of this Agreement held to be void or unenforceable under any law shall be deemed stricken, and all remaining provisions shall continue to be valid and binding upon the parties. The parties agree that this Agreement shall be reformed to replace such stricken provision or part thereof with a valid and enforceable provision which comes as close as possible to expressing the intention of the stricken provision.
17. Except in respect of payment liabilities, neither party will be liable for any failure of delay in its performance under this Agreement due to reasons beyond its reasonable control, including acts of war, acts of God, earthquake, flood, riot, embargo, sabotage, governmental act or failure of the Internet, provided the delayed party gives the other party prompt notice of the reasons for such cause.
18. This Agreement contains and embodies the entire and integrated agreement between parties hereto and supersedes all prior negotiations, representations, or agreements, either written or oral.



ENHANCED  
NETWORKS

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25659 Hillview Court  
Mundelein, IL 60060  
(847) 393-7008  
[www.enhancednetworks.com](http://www.enhancednetworks.com)

210-AKXJ	PowerEdge R740 Server
329-BDKH	PowerEdge R740/R740XD Motherboard
461-AAEM	Trusted Platform Module 2.0
321-BCSN	Chassis with up to 16 x 2.5" SAS/SATA Hard Drives for 2CPU Configuration
340-BLKS	PowerEdge R740 Shipping
343-BBFU	PowerEdge R740 Shipping Material
338-BLMN	Intel Xeon Gold 6148 2.4G, 20C/40T, 10.4GT/s , 27M Cache, Turbo, HT (150W) DDR4-2666
374-BBOI	Intel Xeon Gold 6148 2.4G, 20C/40T, 10.4GT/s , 27M Cache, Turbo, HT (150W) DDR4-2666
412-AAIR	Standard 2U Heatsink
412-AAIR	Standard 2U Heatsink
370-ADNU	2666MT/s RDIMMs
370-AAIP	Performance Optimized
780-BCDS	Unconfigured RAID
405-AAML	PERC H740P RAID Controller, LP Adapter
619-ABVR	No Operating System
421-5736	No Media Required
385-BBKT	iDRAC9,Enterprise
379-BCQV	iDRAC Group Manager, Enabled
379-BCSF	iDRAC,Factory Generated Password
330-BBGZ	Riser Config 1, 4 x8 slots
540-BBBW	Broadcom 5720 QP 1Gb Network Daughter Card
429-ABBU	DVD ROM, SATA, Internal
384-BBPZ	6 Performance Fans forR740/740XD
450-ADWM	Dual, Hot-plug, Redundant Power Supply (1+1), 1100W
325-BCHV	PowerEdge 2U LCD Bezel
350-BBKG	Dell EMC Luggage Tag
350-BBJV	No Quick Sync
384-BBBL	Performance BIOS Settings
770-BBBS	No Rack Rails
631-AACK	No Systems Documentation, No OpenManage DVD Kit
332-1286	US Order
813-9119	Dell Hardware Limited Warranty Plus On-Site Service
813-9123	ProSupport Mission Critical: 4-Hour 7x24 On-Site Service with Emergency Dispatch, 3 Years
813-9129	ProSupport Mission Critical: 7x24 HW / SW Technical Support and Assistance, 3 Years
989-3439	Thank you choosing Dell ProSupport. For tech support, visit //www.dell.com/support or call 1-800- 945-3355
900-9997	On-Site Installation Declined
973-2426	Declined Remote Consulting Service
370-ADNF	32GB RDIMM 2666MT/s Dual Rank
400-ASGV	900GB 15K RPM SAS 12Gbps 512n 2.5in Hot-plug Hard Drive
540-BBCW	Broadcom 5719 QP 1Gb Network Interface Card
450-AALV	NEMA 5-15P to C13 Wall Plug, 125 Volt, 15 AMP, 10 Feet (3m), Power Cord, North America
800-BBDM	UEFI BIOS Boot Mode with GPT Partition

**RESOLUTION NO. 1107-19**

**A RESOLUTION AUTHORIZING EXECUTION OF AN AGREEMENT WITH ENHANCED NETWORKS FOR 2019 VIRTUAL HOST REPLACEMENT**

WHEREAS, the Village of Itasca utilizes Enhanced Networks, Inc. for computer services; and,

WHEREAS, the Village of Itasca is in need of computer server upgrades by way of the 2019 Virtual Host Replacement – VMware to Hyper-V.

NOW, THEREFORE, BE IT RESOLVED by the Village President and the Board of Trustees of the Village of Itasca, DuPage County, Illinois, as follows:

SECTION ONE: The corporate authorities of the Village of Itasca hereby approve a contract with Enhanced Networks for the 2019 Virtual Host Replacement project in an amount not to exceed \$50,044.40.

SECTION TWO: The Village Administrator, or her designee, is hereby authorized to sign and execute all necessary documents involving the Enhanced Network agreement for the 2019 Virtual Host Replacement project.

SECTION THREE: SEVERABILITY. If any section, paragraph, or provision of this Resolution shall be held to be invalid or unenforceable for any reason, the invalidity or unenforceability of such section, paragraph, or provision shall not affect any of the remaining provisions of this Resolution.

SECTION FOUR: REPEAL OF PRIOR RESOLUTIONS. All prior Resolutions and Ordinances in conflict or inconsistent herewith are hereby expressly repealed only to the extent of such conflict or inconsistency.

SECTION FIVE: EFFECTIVE DATE. This Resolution shall be in effect immediately from and after its passage and approval.

AYES: \_\_\_\_\_

NAYES: \_\_\_\_\_

ABSENT: \_\_\_\_\_

ABSTAIN: \_\_\_\_\_

APPROVED and ADOPTED by the Village President and Board of Trustees of the Village of Itasca this \_\_\_\_\_ day of April, 2019.

APPROVED:

\_\_\_\_\_  
Village President Jeffery J. Pruyn

ATTEST:

\_\_\_\_\_  
Village Clerk Jody Conidi