



VILLAGE PRESIDENT

JEFFERY J. PRUYN

VILLAGE CLERK

JODY A. CONIDI

VILLAGE ADMINISTRATOR

CARIE ANNE ERGO

VILLAGE TRUSTEES

JEFF AIANI

DINO GAVANES

ELLEN LEAHY

KATHY LINSNER

FRANK J. MADARAS

PATRICK POWERS

MEMORANDUM

TO: Village Administrator Ergo
FROM: Administrative Services Manager Spencer
DATE: July 27, 2021
SUBJECT: Enhanced Network's Project Agreement

Introduction

The Village's technology infrastructure requires specific maintenance to ensure proper safety of the data networks required for the daily operations of all Village departments.

Discussion

The Village's technology networks require frequent and attentive maintenance to ensure proper safety of the data we keep in our file systems. Enhanced Networks, Inc has recommended three foundational improvements to the Village's network to increase security and decrease the time it takes to respond to threads and routine work requests. A technical description for each project is attached for reference.

Fiscal Impact

The initial fee for software licensing and maintenance is \$26,247.00. There is also an approximate annual fee of \$2,472 for each year thereafter.

Staff Recommendation

Staff recommends the item be forwarded to the Committee of the Whole on August 3, 2021, for consideration and approval.

Attachments

- Quote for Services
- Technical Explanation

Enhanced Networks, Inc.
26773 N. Middleton Pkwy
Mundelein, IL 60060
+1 8473937008
invoicing@enhancednetworks.com
www.enhancednetworks.com



Quote

ADDRESS

Jessica Spencer
Village of Itasca
550 W. Irving Park Road
Itasca, IL 60143

SHIP TO

Jessica Spencer
Village of Itasca
550 W. Irving Park Road
Itasca, IL 60143

QUOTE # 1034

DATE 05/18/2021

DESCRIPTION	QTY	RATE	AMOUNT
Annual Microsoft Update Server Cloud Services.	103	24.00	2,472.00
Auto-Update Server configuration.	1	3,750.00	3,750.00
VH Core Switch Stack Upgrade	1	11,275.00	11,275.00
VH Core 40GB BackPlane Upgrade	1	8,750.00	8,750.00
TOTAL			\$26,247.00

Accepted By

Accepted Date



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Auto-Update Server Configuration w/ licensing

Auto-Update programming of the Physical and virtual server architecture will result in the automation of countless hours of Information Technology Labor. Current monthly server rollout patches take hours to complete on weekly and monthly terms if applied manually (current). Servers and workstations at VH, PD, and PW will be configured in such a way to apply Microsoft Windows Update licensing on a planned automated schedule outside of production hours. This will greatly increase the security throughout the Village. In addition to reducing the attention needed on a weekly and monthly basis the WSUS Cloud licensing allows for portal access and reporting for all Village Microsoft assets. Currently the only way to find out if a machine is securely patched with Microsoft is to physically go up to the machine and review patch success/failures in person. This configuration and cloud license will allow IT to identify all assets not secure in the Village. This can be done from one portal and will save countless hours of sneaker net IT labor. Security will be greatly improved.

Core Switch Stack Upgrade

Upgrading the Core Switch Stack in the Village will reduce the switching IT footprint by one third. There will no longer be a need to apply security and firmware updates to three individual switches. Future security patches will be applied to one stack instead. This takes one third the time since you only need to visit it once instead of three times. In addition to reducing the amount of time it takes it also allows for redundancy. If the master switch in the current architecture fails all of Village Hall will be unable to access the cloud or on-premise servers. This also includes network printers (which is your majority). All Village phones will be unable to communicate as well. A switch stack is designed to allow the other members of the stack to resume interconnectivity to core resources in the cloud and on-premise. The only switch affected during a hardware failure would be one third of the stack thus allowing IT to keep the majority of the network operational while hardware is repaired. Without the stack large outages and emergency expensive repairs will be necessary in this event.

Core 40GB BackPlane Upgrade

Current connectivity between the VH and PD networks is through a fiber connection at most 1GB if running at its full potential. This is the main bottleneck between the VH and all on-premise and cloud resources. This upgrade will allow for a reduction in performance-based IT support requests. This upgrade will increase the pipe between the VH and PD networks up to 40GB. This upgraded technology consists of four separate 10GB pipes. If one pipe fails the other three will remain functional until it is repaired.

RESOLUTION NO. 1298-21

A RESOLUTION ACCEPTING A PROPOSED PROJECT AGREEMENT FROM ENHANCED NETWORKS, INC. (IT SUPPORT SERVICES)

WHEREAS, Enhanced Networks, Inc. has been providing information technology (IT) support services to the Village of Itasca (“Village”) for several years on its SCADA system and network support and back-up services giving them familiarity with the Village’s network; and

WHEREAS, the Village’s technology infrastructure requires specific maintenance to ensure proper safety of the data networks required for the daily operations of the Village; and

WHEREAS, the Village wishes to enter into an agreement with Enhanced Networks, Inc. for these services, as outlined in Enhanced Networks, Inc.’s proposed project agreement, attached hereto and incorporated herein as Exhibit A.

NOW, THEREFORE, BE IT RESOLVED by the 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 Exhibit A, Enhanced Networks, Inc.’s proposed project agreement.

SECTION TWO: The Village President is hereby authorized to sign and execute any documents necessary to accept the proposed agreement, Exhibit A, on behalf of the Village of Itasca.

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.

	Trustee Aiani	Trustee Gavanese	Trustee Leahy	Trustee Linsner	Trustee Madaras	Trustee Powers	Mayor Pruyn
Aye	<input type="checkbox"/>						
Nay	<input type="checkbox"/>						
Absent	<input type="checkbox"/>						
Abstain	<input type="checkbox"/>						

APPROVED and ADOPTED by the Village President and Board of Trustees of the Village of Itasca this 17th day of August, 2021.

APPROVED:

Village President Jeffery J. Pruyn

ATTEST:

Village Clerk Jody Conidi