

West Visayas State University

(Formerly Iloilo Normal School) Procurement Division/ Bids and Awards Committee Secretariat Office Luna St., La Paz, Iloilo City 5000 Iloilo, Philippines Trunkline: (063) (033) 320-0870 loc1103/1104 * Telefax No.: (033) 320-0879



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SUPPLEMENTAL/BID BULLETIN

Project Reference No. Name of the Project Location of the Project

Procurement of Network Monitoring Tool for MIS

WVSU - Main Campus

IB No. 2023-39

ADDENDUM NO. <u>2023-31</u> September 13, 2023

This Addendum No. 2023-31 is issued to modify the Section VI. Schedule of Requirements, Section VII. Technical Specifications and Price Schedule for Goods Offered from Within the Philippines. This shall form an integral part of the Bidding Documents.

I. Section VII. Technical Specifications:

Item No.	Description	Corrections/ Amendments/ Instructions
1.	Procurement of Network Monitoring Tool for MIS	Procurement of Network Monitoring Tool for MIS
	Qty/ Unit: 1 lot	Qty/ Unit: 1 lot
	Pls. specify brand and model:	Pls. specify brand and model:
	Unit Cost: 1,600,000.00	Unit Cost: 1,600,000.00
Ι.	Network Performance Monitoring	I. Network Performance Monitoring
	Core Monitoring Capabilities	Core Monitoring Capabilities
	 The proposed monitoring solution should be able to monitor: (a) Routers (b) Switches (c) Firewalls (d) Wireless devices (e) Servers (f) Other SNMP- enabled devices 	 The proposed monitoring solution should be able to monitor: (a) Routers (b) Switches (c) Firewalls (d) Wireless devices (e) Servers (f) Other SNMP- enabled devices
	 Should display information including alerting for major routing protocols (BGP, OSPF, RIP, EIGRP) with options to view and search routing tables including VRFs, changes in default routes and flapping routes, router topology and neighbor statuses Should allow easily create custom CPU and memory utilization pollers for those rare SNMP enabled devices that are not covered out 	 Should display information including alerting for major routing protocols (BGP, OSPF, RIP, EIGRP) with options to view and search routing tables including VRFs, changes in default routes and flapping routes, router topology and neighbor statuses Should allow easily create custom CPU and memory utilization pollers for those rare SNMP enabled devices that are not covered out of
	of the box.	the box.
	• Should show statistics like interface bandwidth, current traffic in bps, total bytes received/transmitted etc.	• Should show statistics like interface bandwidth, current traffic in bps, total bytes received/transmitted etc.
	• Should automatically provide real-time, in-depth network performance statistics after discovery/configuration of devices, including but not limited to, (a) CPU load (b) Memory utilization (c) Interface utilization (d) packet loss	• Should automatically provide real-time, in-depth network performance statistics after discovery/configuration of devices, including but not limited to, (a) CPU load (b) Memory utilization (c) Interface utilization (d) packet loss
	Network Discovery	Network Discovery
	 The proposed monitoring solution should be able to discover devices in the network with SNMP and ICMP capabilities automatically, on input of, (a) IP address ranges (b) subnets (c) individual IP addresses 	 The proposed monitoring solution should be able to discover devices in the network with SNMP and ICMP capabilities automatically, on input of, (a) IP address ranges (b) subnets (c) individual IP addresses
	- Should not add devices with multiple IP addresses as duplicate nodes but should list all known IP addresses for the node	- Should not add devices with multiple IP addresses as duplicate nodes but should list all known IP addresses for the node
	 Should notify the flows coming in from unmanaged devices and/or unmanaged interfaces and allow to add them for monitoring with minimum effort 	 Should notify the flows coming in from unmanaged devices and/or unmanaged interfaces and allow to add them for monitoring with minimum effort



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Graphical User Interface and Customization	Graphical User Interface and Customization
- The proposed management solution should	- The proposed management solution should
provide a high-quality graphical user interface with	provide a high-quality graphical user interface with
asynchronous view refreshing	asynchronous view refreshing
– Drag-and-discover performance charts	– Drag-and-discover performance chart
include a draggable chart timeline that allows users	include a draggable chart timeline that allows user
to easily select the timeframe of interest or you can use the one-click zoom for one-hour, twelve-hour,	to easily select the timeframe of interest or you can use the one click zoom for one hour, twolve hour, a
or twenty-four-hour windows.	use the one-click zoom for one-hour, twelve-hour, o twenty-four-hour windows.
 This web console should be accessible 	 This web console should be accessible
centrally or remotely	centrally or remotely
Advanced Reporting	Advanced Reporting
 The proposed monitoring solution should provide current and historical out-of-the-box reports 	 The proposed monitoring solution shoul provide current and historical out-of-the-box report
for various statistics monitored	for various statistics monitored
 Should allow advanced customization by 	 Should allow advanced customization b
providing options to enter SWQL queries to query	providing options to enter SWQL queries to query th
the database directly	database directly
Advanced Alerting	Advanced Alerting
– The alerting mechanism should allow	– The alerting mechanism should allo
complex conditions and condition groups to be	complex conditions and condition groups to b
specified for narrowing down the alert condition	specified for narrowing down the alert condition
- It should allow SWQL queries to be entered	 It should allow SWQL queries to be entered
to create rules against the database	to create rules against the database
- It should allow SWQL queries to be entered	 It should allow SWQL queries to be entered
to create rules against the database	to create rules against the database
- Should have the ability to dynamically	– Should have the ability to dynamicall
calculate statistical network baseline and	calculate statistical network baseline an
automatically set Warning and Critical threshold	automatically set Warning and Critical threshold
Network Maps	Network Maps
- Should be able to display not just the device status	- Should be able to display not just the device status o
on the map but also status of any other detail	the map but also status of any other detail obtaine
obtained through custom MIB polling	through custom MIB polling
- Should be able to automatically connect	- Should be able to automatically connect
devices by means of topology information gathered	devices by means of topology information gathered
during discovery, like Cisco Discovery Protocol or Link Layer Discovery Protocol	during discovery, like Cisco Discovery Protocol o Link Layer Discovery Protocol
 Should be able to view multicast topology 	 Should be able to view multicast topolog
using upstream and downstream device list	using upstream and downstream device li
information	information
- Should be able to display devices location	- Should be able to display devices location
on the geographical level and down to street level	on the geographical level and down to street level
Multi-vendor Support	Multi-vendor Support
- The proposed monitoring solution should	- The proposed monitoring solution shoul
not be vendor-specific	not be vendor-specific
- The discovered devices should be detected	- The discovered devices should be detected
as that of a specific vendor and categorized	as that of a specific vendor and categorize
automatically	automatically
Extensibility	Extensibility
Entensionity	- The proposed monitoring solution should
- The proposed monitoring solution should	
- The proposed monitoring solution should allow gathering of custom properties from	allow gathering of custom properties from
- The proposed monitoring solution should allow gathering of custom properties from SNMP-enabled devices by specifying the OID	allow gathering of custom properties from SNMP-enabled devices by specifying the OID of
- The proposed monitoring solution should allow gathering of custom properties from SNMP-enabled devices by specifying the OID of the properties.	allow gathering of custom properties from SNMP-enabled devices by specifying the OID of the properties.
 The proposed monitoring solution should allow gathering of custom properties from SNMP-enabled devices by specifying the OID of the properties. Should be able to fetch properties from 	allow gathering of custom properties from SNMP-enabled devices by specifying the OID of the properties. - Should be able to fetch properties from
 The proposed monitoring solution should allow gathering of custom properties from SNMP-enabled devices by specifying the OID of the properties. Should be able to fetch properties from devices without need to import device MIBs 	 allow gathering of custom properties from SNMP-enabled devices by specifying the OID of the properties. Should be able to fetch properties from devices without need to import device MIBs into the properties of the properties of the properties from devices without need to import device MIBs into the properties of the properties
 The proposed monitoring solution should allow gathering of custom properties from SNMP-enabled devices by specifying the OID of the properties. Should be able to fetch properties from devices without need to import device MIBs into MIB database 	 allow gathering of custom properties fro SNMP-enabled devices by specifying the OID of the properties. Should be able to fetch properties fro devices without need to import device MIBs in MIB database
 The proposed monitoring solution should allow gathering of custom properties from SNMP-enabled devices by specifying the OID of the properties. Should be able to fetch properties from devices without need to import device MIBs into MIB database Application Aware Network Performance 	allow gathering of custom properties from SNMP-enabled devices by specifying the OID of the properties. - Should be able to fetch properties from devices without need to import device MIBs in MIB database Application Aware Network Performance
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- Should be able to id	dentify and classify - Should be able to identify and classify
~1200 applications out of th	he box. ~1200 applications out of the box.
- Should have the ability	v to display aggregate - Should have the ability to display aggregate
volume metrics per applicat	tion / node. volume metrics per application / node.
- Should have the abili	
HTTP applications.	HTTP applications.
- Should be able to conte	
data for nodes in Node Deta	
- Should automatically	calculates network - Should automatically calculates network
latency and correlates to e	end-users' quality of latency and correlates to end-users' quality of
experience	experience
Additional Components	Additional Components
- Should have wireless	
display wireless thin and	
points and their associated of	
- Should have customiz	
console for administrators' i	immediate viewing. console for administrators' immediate viewing.
- Should be able to rep	
like Cisco UCS, Energywis	
Cisco Nexus 1000V swit	
Channel switches like Cis	isco MDS, Brocade, switches like Cisco MDS, Brocade, McData
McData devices.	devices.
- Should be able to more	nitor entire VMware - Should be able to monitor entire VMware
and Hyper-V virtual infra	astructure, including and Hyper-V virtual infrastructure, including
Virtual Centers, Datacenter	
and automatically track VM	
Integration	Integration
- Should be able to inte	
serving other monitoring p	purposes and provide serving other monitoring purposes and provide a
a single-pane-of-glass view	<i>i.</i> single-pane-of-glass view.
- Should allow integrat	
applications at user-inter	
message exchanges and also	o through APIs. message exchanges and also through APIs.
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 * Website: www.wvsu.edu.ph * Email Address: bac@wvsu.edu.ph



be able to monitor network traffic by capturing	able to monitor network traffic by capturing flow
flow data from network devices, including Cisco	data from network devices, including Cisco
NetFlow v5 or v9, Juniper J-Flow, IPFIX, sFlow,	NetFlow v5 or v9, Juniper J-Flow, IPFIX, sFlow,
	-
NetStream data and also sampled NetFlow data.	NetStream data and also sampled NetFlow data.
– Should identify which users, applications,	– Should identify which users, applications,
and protocols are consuming the most bandwidth.	and protocols are consuming the most bandwidth.
– Should be able to associate traffic coming	– Should be able to associate traffic coming
from different sources to application names.	from different sources to application names.
 Should be able to receive flows from non- 	 Should be able to receive flows from non-
SNMP-enabled devices, like VMware vSwitch.	SNMP-enabled devices, like VMware vSwitch.
 Should monitor Class-Based Quality of 	– Should monitor Class-Based Quality of
Service (CBQoS) to find out if traffic	Service (CBQoS) to find out if traffic prioritization
prioritization policies are effective and if business-	policies are effective and if business-critical
critical applications have network traffic priority.	applications have network traffic priority.
– Should also support CBQoS Nested	
policies.	 Should also support CBQoS Nested policies.
L	
 Should provide flow analysis with 1-minute 	- Should provide flow analysis with 1-minute
granularity and support 60k sustained flow per	granularity and support 60k sustained flow per
second.	second.
Network Discovery	Network Discovery
- The proposed monitoring solution should	
	- The proposed monitoring solution should be
be able to automatically add flow sources which	able to automatically add flow sources which are
are already being monitored for performance	already being monitored for performance
– Should notify the flows coming in from	– Should notify the flows coming in from
unmanaged devices and/or unmanaged interfaces	unmanaged devices and/or unmanaged interfaces
and allow to add them for monitoring with	and allow to add them for monitoring with
minimum effort.	minimum effort.
Graphical User Interface and Customization	Graphical User Interface and Customization
 The proposed management solution should 	- The proposed management solution should
provide a high-quality graphical user interface.	provide a high-quality graphical user interface.
 It should provide diverse views categorized 	- It should provide diverse views categorized
by user, application, department, conversation,	by user, application, department, conversation,
interface, protocol, type of service,	interface, protocol, type of service,
interface, protocol, type of service, Autonomous System Networks	interface, protocol, type of service, Autonomous System Networks
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happens in background to prevent happens in background to prevent			
		optimal performance of application.	optimal performance of application.
5		optimal performance of application. – Should ensure database maintenance	optimal performance of application. – Should ensure database maintenance





overwhelming of database with flow traffic data.	overwhelming of database with flow traffic data.
 Should allow NetBIOS and DNS resolution of endpoint domain names. 	 Should allow NetBIOS and DNS resolution of endpoint domain names.
– Should have utilities to view the database,	– Should have utilities to view the database, to
to stop and start its own services.	stop and start its own services.
Integration	Integration
– Should be able to integrate with modules	– Should be able to integrate with modules
serving other monitoring purposes and provide a single-pane-of-glass view.	serving other monitoring purposes and provide a single-pane-of-glass view.
 Should allow integration with third-party applications at user-interface layer, through message exchanges and also through APIs. 	 Should allow integration with third-party applications at user-interface layer, through message exchanges and also through APIs.
Enterprise Scalability	Enterprise Scalability
 The proposed monitoring solution should be able to monitor up to 3 million flows per second, and should employs advanced 	 The proposed monitoring solution should be able to monitor up to 3 million flows per second, and should employs advanced optimization
optimization methods	methods
- Should be able to accommodate network growth through addition of load-balancing applications.	 Should be able to accommodate network growth through addition of load-balancing applications.
- Should allow information from multiple instances of application to be consolidated into a single view.	 Should allow information from multiple instances of application to be consolidated into a single view.
 Should support multiple-deployment options centralized, distributed and hybrid deployments with option for a centralized operations console view. 	 Should support multiple-deployment options centralized, distributed and hybrid deployments with option for a centralized operations console view.
High Availability	High Availability
- Should have options for ensuring high-	- Should have options for ensuring high-
availability of application, with/without use of failover products.	availability of application, with/without use of failover products.
Frequency of Updates	Frequency of Updates
 New features to be added to product versions frequently, preferably twice every year or more. 	 New features to be added to product versions frequently, preferably twice every year or more.
 Should notify availability of new versions in the web console. 	 Should notify availability of new versions in the web console.
Product Support	Product Support
 Should provide 24x7 support 	 Should provide 24x7 support
 Active support through forums and community would be a welcome feature. 	 Active support through forums and community would be a welcome feature.
Extensible NetFlow Software	III. Prerequisite Software
 Ability to natively save flows into MySQL and SQLite, as well as text and binary. 	Operating System Licensed Windows Server 2019 or higher
 Ability to natively export flows in Splunk and ElasticSearch. 	Database Management System – Microsoft SQL
 Ability to dump flows in format ready for import in columnar databases such as InfiniDB. 	 Note: It should be noted that all licenses necessary to accomplish the project must be included in the offer.
 Native PF_RING support for high speed flow generation. 	
 Ability to act as flow collector and proxy. All combinations are supported. 	
 Ability to collect sFlow flows and turn them into flows (v5/v9/IPFIX). 	
 Support of detect protocols via DPI (deep packet inspection) and report protocol name in flows for precise collector protocol accounting. 	
 Ability to forge NetFlow interfaceIds based on MAC/IP addresses. 	
– Collection of Cisco ASA flows and	





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conversion in 'standard' flows.	
– Support of tunneled (including GRE, PPP	
and GTP) traffic and ability to export in flows	
inner/outer envelope/packet information.	
– Support of both flow and packet sampling.	
 Support of Flexible Netflow: create your 	
netflow templates, now with PEN support.	
– VoIP (SIP and RTP) traffic analysis	
including voice quality.	
- HTTP and MySQL/Oracle, DNS protocol	
analysis: ability to generate logs of web,	
MySQL/Oracle and DNS activities in addition	
to flow export.	
- BGP Plugin for establishing a BGP session	
with a router and generate flows with AS and	
AS path information.	
– Plugin architecture for easy extensibility	
via custom V9/IPFIX tags.	
License and warranty Support	License and warranty Support
	 Perpetual License. A perpetual license is
– Perpetual License. A perpetual license is a	a type of software license that gives the user
type of software license that gives the user the	the right to use the software indefinitely. The
right to use the software indefinitely. The user	user typically pays a one-time fee for the
typically pays a one-time fee for the license,	
and there are no recurring subscription fees.	subscription fees.
	 License includes 500 elements.
– 3 years warranty Support. The 3-year	– 3 years warranty Support. The 3-year
warranty and support covers the following:	warranty and support covers the following:
- Software updates and bug fixes	- Software updates and bug fixes
· ·	- Technical support from SolarWinds
11	11
engineers	engineers
- Access to the SolarWinds knowledge base	- Access to the SolarWinds knowledge base
and community forums	and community forums
- Free training for new users	- Free training for new users
- Discounted pricing on future upgrades	 Discounted pricing on future upgrades
Vendor Responsibility	Vendor Responsibility
1.Vendor must provide onsite training to ensure IT team	1.Vendor must provide onsite training to ensure IT team
of WVSU is capable to maintain the products	of WVSU is capable to maintain the products
2.Vendor must provide 24*7 Technical support through	2.Vendor must provide 24*7 Technical support through
Phone, Email, and Remote Web Assistance	Phone, Email, and Remote Web Assistance
3.Vendor should have engineers based in Visayas to	3.Vendor should have engineers based in Visayas to
provide onsite support if needed	provide onsite support if needed
1 11	provide ofisite support if fleeded
4. Vendor should offer quarterly health check and	4. Vendor should offer quarterly health check and software
software upgrade to ensure products running in best	upgrade to ensure products running in best condition.
condition.	
5. Vendor should ensure that the configuration and	5. Vendor should ensure that the configuration and
implementation should be as per the requirement of the	implementation should be as per the requirement of the
end-user	end-user
6. Vendor should submit a certificate of authorization	6.Vendor should submit a certificate of authorization from
from the manufacturer that they are an authorized partner	the manufacturer that they are an authorized partner or
or reseller to extend the maximum warranty of the	reseller to extend the maximum warranty of the software
software product.	product.
7.The vendor must present credentials for two (2)	
employees with certification such Cisco Certified	
Network Associate (CCNA) or equivalent.	
Network Associate (CCNA) or equivalent.	8 Vendor should provide a turn over training to MIS
8.Vendor should provide a turn-over training to MIS	8. Vendor should provide a turn-over training to MIS
	8. Vendor should provide a turn-over training to MIS Network Personnel for a minimum of 8hrs upon implementation of the system.



West Hisapas State University (Formerly Iloilo Normal School) Procurement Division/ Bids and Awards Committee Secretariat Office Luna St., La Paz, Iloilo City 5000



Trunkline: (063) (033) 320-0870 loc1103/1104 * Telefax No.: (033) 320-0879 * Website: www.wvsu.edu.ph * Email Address: bac@wvsu.edu.ph

Documentation:	Documentation:
1.The manufacturer should provide a certificate of ownership of the license that the license should name WVSU as the license owner.	1. The manufacturer should provide a certificate of ownership of the license that the license should name WVSU as the license owner.
2. Proper documentation and complete technology transfer are part of the requirements for the final acceptance of the project.	2. Proper documentation and complete technology transfer are part of the requirements for the final acceptance of the project.

IV. Section VI. Schedule of Requirements and Price Schedule for Goods Offered from Within the Philippines:

Item No.	Description	Corrections/ Amendments/ Instructions
1.	Network Monitoring Tool for MIS – 1 lot	Network Monitoring Tool for MIS – 1 lot
Ι.	Network Performance Monitoring	
II.	Netflow Traffic Analyzer	
	Nothing Follows	Nothing Follows

For guidance and information of all concerned.

JULIUS B. UNDAR

Chairperson, Bids and Awards Committee