

**CONFORMITY TO TECHNICAL SPECIFICATIONS/DESCRIPTIONS
(FDA-SBAC Ref. No. ITB No. 2021-006-A-ICTMD)**

**Procurement Project Title: SUBSCRIPTION OF CLOUD BASED IT INFRASTRUCTURE
MONITORING PLATFORM FOR ONE (1) YEAR**

End User: ICTMD

**Quantity: One (1)
Lot**

Approved Budget for the Contract: PHP1,200,000.00

**SUPPLIER'S
SPECIFICATION**

TECHNICAL SPECIFICATIONS

*Supplier Declaration to
the End-User's Technical
Specifications (State
whether "**COMPLY**" or
"**NOT COMPLY**" only).
Indicate the page number
of the specs of the critical
components in the
brochure.*

SPECIFICATIONS

Core Monitoring Capabilities

1. 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

1. 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

2. Should show statistics like interface bandwidth, current traffic in bps, total bytes received/transmitted etc.

3. 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

4. Should help with multicast traffic information monitoring, alerting including topology information, multicast information, route information, multicast errors etc.	
5. Should display device status and interface status by different colors to represent warning and critical status	
6. Should monitor hardware health for popular vendors like Cisco, DELL, F5, Juniper, HP etc. and should allow alerting and reporting on hardware health monitoring	
7. Should show both real time details and historical details in form of charts with option to choose the time periods	
8. Should be able to discover and monitor both IPv4 and IPv6 devices	
9. Should have options to configure polling intervals as needed	
10. Should have options to specify data retention periods	
11. Should have the option to determine device availability using SNMP only	
12. 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	
14. Should not add devices with multiple IP addresses as duplicate nodes but should list all known IP addresses for the node	
15. Should allow interface filtering on discovery results to exclude virtual interfaces and access ports and select interfaces based on pattern matching	
16. Should have option to automate and schedule discovery process	
17. Should prompt in web console on discovery of new devices in network	
18. Should use discovered information for creating topology maps	
19. The proposed management solution should provide a high-quality graphical user interface with asynchronous view refreshing	
20. This web console should be accessible centrally or remotely	
21. The web console should allow multiple users to log in at the same time	
22. It should have load-balancing options available if too many users login at same time	
23. It should allow customization by having options to add/remove sections in web pages as necessary	
24. It should provide a unified view of alerts, traps, events, syslog messages in a single page	

25. It should give a single unified view of multicast information, route information and device information for a device.	
26. It should quickly highlight devices with issues, based on different properties like response time, CPU load, memory usage, high interface usage etc.	
27. It should allow creation of custom dashboards and restrict views for users based on devices or interfaces, i.e. it should have role-based access	
28. It should log user actions and events in the web console for audit purposes and they should be available for alerting and reporting	
29. It should allow interactive charting for node, interface, volume charts etc.	
30. It should allow export of any web page in console to PDF format	
31. It should integrate with Active Directory for user login purposes	
32. It should be easy to use and intuitive with drill-down features	
33. The proposed monitoring solution should provide current and historical out-of-the-box reports for various statistics monitored	
34. Should be able to generate / create the report via the web console	
35. Should be able to generate statistical reports that can be used as reference for future planning or troubleshooting	
36. Should allow customization of reports by adding/removing columns, setting filters, specifying timeframes, grouping columns etc.	
37. Should have options to save the customized reports permanently and have them accessible in web console	
38. Should allow reports to be sent out on schedule as daily, weekly, monthly reports	
39. Should allow emailing of dashboards created in web console	
40. Should be able to configure both charts and tables into a single report.	
41. Should have options to import/exports reported created by other users	
42. Should support multiple formats such as pdf, HTML and CSV	
43. Capable of monitoring solution should be able to manage and display events/alerts in the web console	
44. The alerts and events information should be logged into the database for future reference	
45. The alerting mechanism should allow complex conditions and condition groups to be specified for narrowing down the alert condition	
46. It should allow creation of new alerts from scratch and also customizable threshold limits	
47. It should allow creation of alerts based on sustained states	

48. Should have various actions that can be taken, including but not limited to, sending out emails, forwarding SNMP traps, running executables, sending SMS text alerts, playing sound, emailing a web page etc.	
49. Should have support for variables in alert email message to make the content more self-explanatory	
50. Should have the ability to dynamically baseline statistics and automatically set Warning and Critical threshold	
51. The proposed monitoring solution should allow grouping of devices by various properties -- by department, by location, by name and by other properties gathered	
52. Should also allow adding members to groups on-the-fly by specifying a property which can dynamically change values, like volumes reaching low free space	
53. Should be able to define dependencies and relationships between connected devices and interfaces to avoid false-positive email alerts in case of outage.	
54. The monitoring solution should be able to represent the network pictorially and display performance details of devices in real time	
55. Should allow customization of background, icons etc. and should allow multiple network maps to be nested with drill-down capabilities	
56. Should be able to display not just the device status on the map but also status of any other detail obtained through custom MIB polling	
57. Should have the capability to display the status of nodes or an aggregated group of nodes over dynamically updated street data.	
58. Should be able to automatically connect devices by means of topology information gathered during discovery, like Cisco Discovery Protocol or Link Layer Discovery Protocol	
59. Should be able to view multicast topology using upstream and downstream device list information	
60. Should be able to display devices location on the geographical level and down to street level	
61. Should have the ability to show the link utilization as a 'weather map'	
Multi-vendor Support	
1. The proposed monitoring solution should not be vendor-specific	
2. The discovered devices should be detected as that of a specific vendor and categorized automatically	
3. The monitoring solution should allow gathering of custom properties from SNMP-enabled devices by specifying the OID of the properties	

4. Should be able to fetch properties from devices without need to import device MIBs into MIB database	
5. Should be able to get real-time values, charts and also alerts on these custom properties	
6. Should have APIs available to programmatically import/export nodes and do similar functionality	
7. Should be able to provide Network Response Time (NRT) and Application Response time (ART) for critical applications	
8. Should be able to identify and classify ~1200 applications out of the box	
9. Should have the ability to display aggregate volume metrics per application / node	
10. Should have the ability to create custom HTTP applications	
11. Should be able to contextually provide QoE data for nodes in Node Details sub view	
Additional Components	
1. Should have utilities to view the database, to stop and start application services	
2. Should have options to receive, display and alert on syslog messages and traps from devices	
3. Should have wireless reporting option to display wireless thin and autonomous access points and their associated clients	
4. Should have customized mobile views of console for administrators' immediate viewing	
5. Should be able to report on technologies like Cisco UCS, Energy wise feature	
6. Should be able to monitor entire VMware and Hyper-V virtual infrastructure, including Virtual Centers, Datacenters and ESX clusters, and automatically track VM performance	
7. Should be able to integrate with modules serving other monitoring purposes and provide a single-pane-of-glass view	
8. Should allow integration with third-party applications at user-interface layer, through message exchanges and also through APIs	
9. The monitoring solution should be able to accommodate network growth through addition of load-balancing applications	
10. Load-balancing engines should handle interruptions in the connection between the engines and the main application	
11. Should allow information from multiple instances of application to be consolidated into a single view	

12. Should support multiple-deployment options -- centralized, distributed and hybrid deployments with option for a centralized operations console view	
13. Should have options for ensuring high-availability of application, with/without use of failover products	
14. New features to be added to product versions frequently, preferably twice every year or more	
15. Should notify availability of new versions in the web console	
16. Should provide 24x7 support	
17. With Training provided	
Schedule of Delivery:	
60 Calendar days	
Delivery Site	
FDA Central Office, Civic Dr., Filinvest City, Alabang, Muntinlupa City	

I hereby certify that the statement of compliance to the foregoing technical specifications are true and correct otherwise if found to be false either during bid evaluation or post qualification, the same shall give rise to automatic disqualification of our bid.

Name of Company/Supplier

Date

Signature Over Printed Name of Authorized Representative