MAHARASHTRA STATE ELECTRICITY TRANSMISSION COMPANY LTD

AREA LOAD DESPATCH CENTRE AMBAZARI, NAGPUR





Office of the Superintending Engineer Area Load Dispatch Centre, Ambazari, MSETCL, 8th mile, P.O.Wadi, Amravati Road, Nagpur- 440023. Phone No, (07104) 220611/221242

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Date: - 22.08.2023

SE/ALDC/IT/2023-24/ENQ-01/336

To,

Sub: - Supply installation and commissioning of 30 Client Antivirus Software License & 2 Server Antivirus Software License along with EDR/XDR for period of three years at ALDC Ambazari, Nagpur.

Dear Sir/Mam,

Please quote your lowest rates for Supply installation and commissioning of 30 Client Antivirus Software License & 2 Server Antivirus Software License along with EDR/XDR for period of three years at ALDC Ambazari, Nagpur as per details mentioned in annexure A&B, subject to following terms and conditions stipulated below. The quotation may please be submitted in a sealed envelope super scribed "Quotation for Supply installation and commissioning of 30 Client Antivirus Software License & 2 Server Antivirus Software License along with EDR/XDR for period of three years at ALDC Ambazari Nagpur" At Office of the Superintending Engineer Area Load Dispatch Centre, Ambazari, MSETCL, 8th mile, P.O.Wadi, Amravati Road, Nagpur- 440023. So as reach this office on before 28.08.2023 upto 06:00 pm. In case of hand delivery, quotation should be handed over to the receipt clerk of this office.

Sr. No	Particulars	Antivirus Product Should be mentioned by Vendor	Qty	Rates per qty to be quoted by vendor
1	Server Antivirus License Technical Specification as per Annexure- A&B(1)		2	
2	Client Antivirus license Technical Specification as per Annexure- A&B(2)		30	

Terms and Conditions

- 1) **Rates**: The rates quoted should stand firm for two months, otherwise & variation in the rates should be quoted. Rates should include general packing and forwarding charges.
- 2) Taxes: The rates quoted should be inclusive of al taxes otherwise extra taxes applicable if any should be clearly mentioned in quotation. Income Tax & any tax applicable will be deducted from your bills as per rules.

- 3) **Documents: -** Submit documents such as PAN and GST along with your quotation.
- 4) **General:** The undersigned reserves the right to reject any or all the quotations without assigning any reason.
- 5) **Destination for Supply:** The complete material should be supplied at the "Office of the Superintending Engineer, Area Load Despatch centre, Ambazari, 8th mile, Amravati Road, Opp. Ordnance Factory 2nd gate, P.O. Wadi, Nagpur" during working hours 10:00 Hrs. to 18:00 Hrs. on any working day.
- 6) **Delivery Period**: The Supply, installation and commissioning of complete material shall be effected to the consignee within 20 (Twenty) days from the date of receipt of order.
- 7) **Terms of payments:** 100% payment will be made to you within 45 days after supply, installation, Commissioning and testing of complete material as per specifications, after submission of invoice bill, delivery challan & guarantee certificate to this office. However, release of payment may depend on availability of funds.
- 8) **Penalty** If the complete material is not supplied and commissioned within stipulated time limit, penalty at the rate 1/2% (Half Percent) per delayed week will be recovered from your bill subject to 10% maximum of work order value. In case failing of supply goods from your side, the balance goods will be purchased from other agency & difference in cost will be recovered from your bill.
- 9) Material supplied shall be strictly as per Annexures-A&B. substitute material/compatible material/material with difference in specification shall not be accepted.
- 10) If the materials are not approved/received in good condition, the same shall have to be replaced in part or in whole as per case.
- 11) **Guarantee/Warranty:** The material offered shall be covered by guarantee/warranty under proper use for faulty material or workmanship. During the period of guarantee/warranty you will replace free of cost material found defective.
- 12) **Packing:** The material shall be packed suitably for Rail/Road worthy packing as per standard practice.
- 13) Compensation under labor laws if any, during contract period will be on your account.
- 14) **Accident:** If any accident occurs to your skilled or unskilled labor, compensation if any, is to be paid by tenderer only. MSETCL will not be responsible for any accident (fatal or non-fatal) or injury to the personnel of the agency or any financial implication arising there from.
- 15)**Transit Insurance:** Transit Insurance will be borne by contractor.
- 16)**Termination of contract**: In case you fail to carry out the work as per above terms and conditions, the MSETCL shall exercise its discretionary powers to cancel the contract by giving one-month notice. The decision of MSETCL will be final and in such case Security Deposit will be forfeited.

17) Consignee for supply

The consignee is as below or his authorized representative:

Superintending Engineer, Area Load Despatch centre, Ambazari, 8th mile, Amravati

Road, Opp. Ordnance Factory 2nd gate, P.O. Wadi, Nagpur – 440023

- 18) For any loss to the company's property during execution of work, the tenderer will be liable to pay the equivalent compensation as per the recommendation of concerned engineer
- 19) Apart from above points, all the terms and conditions published by MSEB in booklet "Tender and Contract of Works" are applicable to this order also.

20) Agreement: As per rules of MSETCL & Erstwhile MSEB you (proprietor of the firm) will have to enter into an agreement with the company for the above works as early as possible and within 10 days from date of receipt of the purchase order and until such agreement is executed with the company, the company shall not be liable to pay nor you shall be entitled to claim any amount due for payment, if any under this contract. The cost ₹500 of the stamp pa pers as per MSETCL rules and regulation shall be borne by suppliers.

Yours Faithfully,

s/d Superintending Engineer Area Load Despatch Centre Ambazari, MSETCL, Nagpur

Annexure-A Features of the Antivirus Software License

Sr. No	Features	Details
1	Threat Prevention Features	Application Exploitation - Protection from exploitation of specific application, Credential Theft Protection, Prevent privilege escalation, Prevent process hollowing attacks, Protect from Encrypting File System attacks, Protection from malicious webpages, Protection from malicious IP and domains, HIPS/Exploit Prevention - Application Control – Threat Intelligence, Web Content Filtering based on Category like Gaming, Social Networking, Hacking, Criminal Activity, Violence
2	Network Protection Features	Protection across browsers, scripts, shells ,Protection from malicious SMB, Psexec, WMI injections from other devices in the network
3	Malware Protection (AV) Features	Blended Threats/Malware Protection, Automated Malware and Threat Removal, Web Filtering, Suspicious email attachments scanning, Enhanced remediation capabilities, Global Threat Intelligence with Reputation Source configuration capability, Advanced Protection against fileless attack methods., Memory Protection, Root cause analysis/Threat cases for the malware incidents, Advance machine learning and AI based malware protection, Application startup Control, Detect low reputation downloads
4	Automatic Investigation Features	Automatic AI-Guided Intelligent alert correlation and analysis with no manual intervention, Recommendations on threat mitigations for approvals like kill process, Machine isolation etc., Suspicious event detection and prioritization, Reduced time to mitigate, automatically gather, summarize and visualize evidence, different views for different users
5	Reducing Attack Surface Features	Block all applications from creating child processes, Block execution of potentially obfuscated scripts, Block Win32 API calls from Office macro, Block applications from creating executable content, Block the theft of passwords and hash information from memory, registry, or hard disk, Block against loading .DLL files from untrusted folders, Block applications from injecting code into other processes, Block JavaScript or VBScript from launching downloaded executable content, Block executable content from email client and webmail, Block executable files from running unless they meet a prevalence, age, or trusted list criterion, Use advanced protection against ransomware., Block credential stealing from the Windows local security authority subsystem (lsass.exe).,Block process creations originating from PSExec and WMI commands., Block untrusted and unsigned processes that run from USB., Block applications from creating child processes., Block Adobe Reader from creating child processes., Block persistence through WMI event subscription
6	Potentially Malicious Applications Features	Advertisement Software, Bundling Software, Evasion Software, Torrent software, Crypto mining software, Marketing software, Poor industry reputation, Web Content Filtering
7	Device Control Features	Block Specific Devices, Allow specific devices, Monitor files written to USB devices, Disallow execution of Unsigned/Untrusted files from USB, Custom detection and

		response of device control, Automatic Threat detection on USB
8	Threat Detection Features	mount Comprehensive detection of Advanced Kernel Exploitation and In Memory Attack - Kernel sensors, Pre-written SQL queries for IT operations, Interception of API and Hypercalls, Solution should have the ability to create Forensic Snapshots and perform detailed analysis on demand, Threat analysis/correlation of 3 months data., Historical Search, Real time search, On demand data collection to capture active processes and network connections, Lists applications in the startup section of the registry and their reputation scores
9	Threat Remediation Features	Automatically applies surgical remediation & containment steps to reduce risk., Ability to remediate completely in memory attacks - due to our presence in Kernel.
10	File Level Actions Features	Block, Quarantine, Allow, Collect, Restore
11	System Level Actions	Isolate Machine, Run AV, Collect Investigation Package, Kill Process, Stop Service, De-register Dlls
12	Advanced Threat Hunting Features	Hunting for IOCs and IOAs., Shows a process tree of currently running processes, Lists the activity history of a process, Hunt for specific Application behaviors like process creations etc., Hunt for User behavior like web browsing, Application usage, file creation., Hunt for registry creation and modifications., Hunt for Logon events and activities., Hunt for command lines and PowerShell activities., Hunt for Network info and events.
13	Threat Experts Features	Targeted attack notification., Collaborate with experts, on demand (Paid service).
14	Hosting Environment/Deployment Option for Console	Cloud

<u>Annexure-B (1)</u> <u>Technical Specification of Antivirus Software License for Server</u>

Sr. No	Specifications		
	The antivirus solution should provide enhanced dedicated antivirus protection for servers of		
	all the attacks originating from places inside/outside of the network due to virus and/or other		
1	malicious programming code.		
	The antivirus solution Should have a Centralized Management Console with off-premise		
2	(cloud managed) model.		
3	The OEM must have its own proprietary scan engine		
	The antivirus solution Should Support Multi-Platform operating system (Windows, Linux)		
4	and the same should be managed from a single Centralised Management console		
	The antivirus solution Should have single, Configurable Installation with centralized		
5	configuration & policy management.		
	Antivirus should support integration with Active directory for directory structure of		
6	computers for better management		
7	Solution must Prevent update storms and Scan Storms for virtualised environment		
8	Solution must have virtualization support Esxi & Hyper V		
9	Solution must have off board malware protection to a centralised security virtual machine		
10	Solution must have the File Integrity Monitoring module for windows 2012 & above.		
11	Solution must offer default monitored locations for File integrity monitoring for Files/registry		

	entries for Windows Server platforms	
	Solution should have feature of Monitoring events & storing on a local server with option to	
12		
	Solution must support Malicious Traffic Detection to monitor non-browser based traffic for	
13	any Command & Control (C&C) Servers connection.	
	Administrator should have flexibility to schedule Scan and update Antivirus Agents from	
14	central Server.	
15	Solution must provide integrated EDR features on Windows Server and Linux	
	Antivirus should be able to capture Viruses, Trojans, Worms, Spyware and Malware, Adware	
16	and PUA from single agent.	
	Solution should have Data control that enables you to monitor and control the transfer of files	
from computers to storage devices and applications connected to the internet.		
	Solution should support Data Protection Policy to monitor data copied or shared through	
18	external mediums and internet browsers.	
	Anti Virus Should have Host Intrusion Prevention System (HIPS) technology which works in	
	4 Layers to provide zero day protection without the need for updates (Unknown Virus	
19	Detection & Repair),	
20	Anti-Virus Software must have the capability to clean, Qurantine or delete Viruses	
	Solution should have use pre-execution analysis to detect threats without letting the code run,	
21	avoiding the risk of partial infection and damage	
	Administrator Should be able to add files, folders or extensions to an exclude list so that they	
22	are not scanned on access.	
	Should enable automatic submissions of unknown/suspected virus samples to vendor and	
23	automatic response/delivery of the cure.	
	Administrator should be able to lock down all anti-virus configurations at the server & User	
24	should be prevented from being able to uninstall the anti-virus software.	
25	Solution must have the Server Lockdown facility to lock the state of server to protect its	
25	integrity.	
26	Antivirus should provide centralized event logging to locate and cure virus problems.	
27	Solution must protect against ransomware running locally or remotely using cryptoguard.	
28	Solution should have Live protection with Web Reputation	
	Solution Application control should also have the capability to restrict the usage and block the	
20	applications even if they are installed on category basis ie. Whitelisting & Blacklisting of the	
29	applications	
20	Antivirus solution should have integrated Data Loss Prevention module with pre-defined	
30	templates.	
	Antivirus solution should have integrated DEVICE control module with a features to set	
21	devices to "Read Only", "Add Exceptions" and "Block" Black listing and whitelisting of the devices.	
31	USB mass storage device Blocking and Exeptions with Vendor and Model (Device ID)	
32		
33	Integrated HIPS for Easy of Management and Protection	
34	OEM Should have 24x7x365 toll free Global Technical Support	
35	Solution must have the privilige to log a support case from the management dashboard	
2.	Solution must show root cause on console with complete attack chain for malware/	
36	ransomware detection	
27	Solution must have the Anti exploit technology on signature less basis so that it protects	
37	against browser, plugin, or Java-based exploit kits even if your servers are not fully patched	
20	solution must be powered by Deep Learning Neural Network technology for zero day	
38	malware protection Solution must have the Poot Cause Applysis that provides the who what when where and	
	Solution must have the Root Cause Analysis that provides the who, what, when, where, and	
39	how of a given attack, allowing IT the ability to constantly improve upon their security	
39	posture Solution should have capability that if installed with same OEM firewall, it shares server	
40	health status with network firewall	
+U	nearm status with network inewan	
41	Solution must automatically identifies and stops unwanted encryption attempts as well as	

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	system-crippling MBR attacks		
	Solution must have Anti-Hacker Capabilities that protects against the most persistent hacking		
	attempts and prevents pervasive, real-time hacking techniques such as credential harvesting,		
42	lateral movement, and code-caving		
43	Solution should have AMSI Protection (with enhanced scan for script-based threats)		
	Solution should support Malicious Traffic Detection (MTD) to known command and control		
44	centers		
	Solution should be able to provide attack chain (RCA) on management console in case if a		
45	malware detection. It should also provide SHA256 for the detection		
	Solution must have capability to Search for potential threats on devices using file names,		
46	SHA-256 file hashes, IP addresses, domains or command lines.		
	Solution should offer pre-defined administration roles to divide up security tasks according to		
47	the administrators' responsibility level.		
48	Solutions must have the privilege to isolate device manually from the network.		
	EDR Solution must provide functionality of Remote Terminal to get command line access to		
49	remotely take remeadtion actions		
	EDR Solution must have predefined live discover queries for threat hunting and IT operations.		
50	These quiries should be fully customizable.		
	Solution must store threat telemetry data for at least 90 days on disk and 30 days on cloud data		
51	lake		
52	Solution must have option to schedule threat hunting queries		
53	Solution must allow usage of same server license on physical, virtual or cloud hosted servers		
	Proposed Solution should be in 'Leaders' quadrant of the gartners Magic Quadrant for		
54	Endpoint protection platform for the last 5 or more years		
	Proposed Solution should have secured minimum 99% protection accuracy in latest SE Labs		
55	report for 2021		

<u>Annexure-B (2)</u> <u>Technical Specification of Antivirus Software License for Client</u>

Sr. No	Specifications		
1	Integrated Management		
	Must have a unified console for managing multiple products such as Advanced Endpoint		
	Protection, Email Gateway, Server Security, Mobile Control etc.		
	All settings for these products MUST be configured from a Central Dashboard without the		
	need to access additional consoles.		
2	Multi-Platform Management		
	Windows, Mac must be managed from one management console.		
3	Updating Bandwidth Consumption		
	Updating of endpoints should have the ability to set pre-configured available bandwidth used		
	for both software updating and threat definition updates(e.g., 64, 128, 256Kbps, etc.)		
	Must have the option to set up a local cache updating server within the on-premise network environment to minimize large software engine update.		
	Must have an Update Management Policy that contains the configuration of update schedules		
	on managed endpoints.		
4	Deployment Options		
	Deploying the endpoint agent must support the following methodology:		
	1) Email setup link		
	2) via AD Startup/Shutdown script		
	3) AD Login script		

	4) SCCM
	5) Include the endpoint agent installation to a gold image
5	SIEM Integration
	Must have the capability to extract events and alerts information from the Cloud Dashboard to
	a local SIEM.
6	API for Endpoint Management
0	Must have APIs offered as RESTful HTTP endpoints over the public internet.
	APIs must have the capability to query tenants, enumerate and manage endpoints and servers,
	and query alerts and manage them programmatically.
7	Role Management
	Must have the capability to allow the separation of estate management to different
	administrator login.
	Must provide admins the capability to assign predefined administrative roles to users who
	need access to the Admin Console. Must be able to greate system roles and assign the products and access needed
	Must be able to create custom roles and assign the products and access needed.
8	Microsoft AD Synchronization
	Must have the capability to only allow outbound synchronization of Users/Groups from the
	local Active Directory servers to the Cloud Dashboard for policy management.
9	Policies
	Selected policies should be able to be applied to either users or devices.
	Policies must have the capability to be disabled automatically based on a scheduled time and
	date.
10	Enhanced Towner Protection
10	Enhanced Tamper Protection Must have the capability to prevent local administrative users or malicious processes from
	disabling the endpoint protection.
	Must have the capability to prevent the following actions on the endpoint protection solution:
	1) Stopping services from the Services UI
	2) Kill services from the Task Manager UI
	3) Change Service Configuration from the Services UI
	4) Stop Services/edit service configuration from the command line
	5) Uninstall
	6) Reinstall
	7) Kill processes from the Task Manager UI (desired)
	8) Delete or modify protected files or folders
	9) Delete or modify protected registry keys
	Must be able to export Tamper Protection passwords in CSV or PDF formats.
11	Threat Protection
11	Must protect against multiple threats, both known and unknown, and provide a trusted and
	integrated approach to threat management at the endpoint.
	Must protect endpoint systems against viruses, spyware, Trojans, rootkits, and worms on
	workstations and laptops regardless of their nature or the concealment mechanisms used.
	Must protect against threats related to executable files, as well as document files containing
	active elements such as macros or scripts. It must protect against exploits resulting from
	discovery (whether published or not) of security flaws in systems or software.
	Must have the capability to 'lookup' files in real-time to verify if they are malicious. This feature checks suspicious files against the latest malware in the vendor's Threat Intelligence
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	database in the cloud.
	Must have the capability to do real-time scanning of local files and network shares the
	moment the user tries to access them. Access must be denied unless the file is healthy.
	Must have the capability to do real-time scanning of end-users Internet Access. It must monitor and classify the Internet websites according to their level of risk, and make this technology available to endpoint systems. A site known to host malicious code or phishing sites must be proactively blocked by the solution to prevent any risk of infection or attack against a flaw of the browser used. The solution must carry out checks against a database of compromised websites that are constantly being updated with new sites identified per day.
	Must protect managed systems from malicious websites in real-time, whether end-users work within the company or outside the company's secure network - at home or through public Wi-Fi. All browsers on the market must be supported (Internet Explorer, Firefox, Safari, Opera, Chrome, etc.)
12	Anti-rootkit Detection
12	Must identify a rootkit when reviewing an element without overloading the endpoint system. Rootkits must be proactively detected.
13	Suspicious Behavior Detection
	Must be able to protect against unidentified viruses and suspicious behavior.
	Must have both pre-execution behavior analysis and runtime behavior analysis.
	Must be able to identify and block malicious programs before execution.
	Must be able to dynamically analyze the behavior of programs running on the system and
	detect then block activity that appears to be malicious. This may include changes to the
	registry that could allow a virus to run automatically when the computer is restarted.
	Must provide protection against buffer overflow attacks
14	Scanning
	Must provide a scheduled scanner to run depending on the selected frequency or by manually triggering through Windows Explorer to scan the specified directories (local, remote or removable), with analysis parameters used, which may be different from the ones selected for real-time protection.
	Must have the capability to scan archives such as zip, cab, etc. which can be enabled via policy settings.
15	Advanced Deep Learning mechanism
13	The system shall be light speed scanning; within 20 milliseconds, the model shall able to extract millions of features from a file, conduct deep analysis, and determine if a file is benign or malicious. This entire process happens before the file executes.
	Must be able to prevent both known and never-seen-before malware, likewise must be able to block malware before it executes.
	Must protect the system even with offline and will not rely on signatures.
	Must classify files as malicious, potentially unwanted apps (PUA) or benign. Deep learning
	must also focus on Windows portable executables.
	Able to perform new Zero days threat scanning offline (without internet).
	Must be Smarter - should be able to process data through multiple analysis layers, each layer making the model considerably more powerful.
	Must be scalable - should be able to process significantly more input, can accurately predict threats while continuing to stay up-to-date.
	Must Lighter - model footprint shall be incredibly small, less than 20MB on the endpoint, with almost zero impact on performance.
	The deep learning model shall be trail and evaluate models end-to-end using advanced developed packages like Keras, Tensorflow, and Scikit-learn.
16	Exploit Prevention/Mitigation must detect and stop the following known exploits:

	1) Enforcement of Data Execution Protection (DEP) Prevents abuse of buffer overflows
	2) Mandatory Address Space Layout Randomization (ASLR) Prevents predictable code
	locations
	3)Bottom-up ASLR Improved code location randomization
	4) Null Page (Null Dereference Protection) Stops exploits that jump via page 0
	5) Heap Spray Allocation Reserving or pre-allocating commonly used memory addresses, so
	they cannot be used to house payloads.
	6) Dynamic Heap Spray Stops attacks that spray suspicious sequences on the heap
	7) Stack Pivot Stops abuse of the stack pointer
	8) Stack Exec (MemProt) Stops attacker's code on the stack
	9) Stack-based ROP Mitigations (Caller) Stops standard Return-Oriented Programming attacks
	10) Branch-based ROP Mitigations (Hardware Augmented) Stops advanced Return-Oriented
	Programming attacks
	11) Structured Exception Handler Overwrite Protection (SEHOP) Stops abuse of the exception handler
	12) Import Address Table Access Filtering (IAF) (Hardware Augmented) Stops attackers that lookup API addresses in the IAT
	13) LoadLibrary API calls Prevents loading of libraries from UNC paths
	14) Reflective DLL Injection Prevents loading of a library from memory into a host process
	15) Shellcode monitoring Detecting the adversarial deployment of shellcode involves multiple
	techniques to address things like fragmented shellcode, encrypted payloads, and null free
	encoding 16) VPS wint Cod Mode Hove the chility to detect the manipulating of the cofe mode flor an
	16) VBScript God Mode Have the ability to detect the manipulating of the safe mode flag on VBScript in the web browser
	17) WoW64 Must have the ability to prohibit the program code from directly switching from
	32-bit to 64-bit mode (e.g., using ROP) while still enabling the WoW64 layer to perform this
	transition.
	18) Syscall Stops attackers that attempt to bypass security hooks
	19) Hollow Process Protection Stops attacks that use legitimate processes to hide hostile code
	20) DLL Hijacking Gives priority to system libraries for downloaded applications
	21) Application Lockdown Will automatically terminate a protected application based on its
	behavior; for example, when an office application is leveraged to launch PowerShell, access
	the WMI, run a macro to install arbitrary code or manipulate critical system areas; the solution
	must block the malicious action – even when the attack doesn't spawn a child process.
	22) Java Lockdown Prevents attacks that abuse Java to launch Windows executables
	23) Squiblydoo AppLocker Bypass Prevents regsvr32 from running remote scripts and code
	24) CVE-2013-5331 & CVE-2014-4113 via Metasploit
	In-memory payloads: Meterpreter & Mimikatz
	25)Dynamic Shellcode Protection Detects and blocks behavior of stagers
	26) EFS Guard Protection against Encrypting File System attacks
	26) CTF Guard Protects against a vulnerability in the "CTF" Windows component
	26) ApiSetGuard Prevents applications from side-loading a malicious DLL posing as an
	ApiSet Stub DLL
17	Advanced Exploit Mitigation
	Must be able to protect against a range of exploits or "active adversary" threats such as the following:
	1) Credential Theft Theft of passwords and hash information from memory, registry, or hard disk.
	2) APC Violation Attacks using Application Procedure Calls (APC) to run malicious codes.
	3) Privilege Escalation Attacks escalating a low-privilege process to higher privileges to
	access systems.
	4) Code Cave Utilisation Malicious code that's been inserted into another, legitimate
	application.

unauthorized software at startup. Malicious Traffic Detection (MTD) Must be able to detect communications between endpoint computers and command control servers involved in a botnet or other malware attacks. Intrusion Prevention System (IPS) Must be able to prevent malicious network traffic with packet inspection (IPS). Must be able to scan traffic at the lowest level and block threats before harming the oper system or applications. Anti-Ransomware Protection Must have the ability for the encrypted files to be rolled back to a pre-encrypted state. Both Anti-Exploit and Ransomware protection does not need to have a Cloud Look perform the detection. When the Anti-crypto function suspects that certain behavior is not in keeping wi intended process, the Data Recorder starts caching data while the said behavior is cireviewed to identify if the application is legitimate or if the activity is warranted maximum size of the data recorder is 100MB, and the Anti-crypto function caches files 75MB. The anti-crypto function shall look back at all the malicious file modifications made by process and restores them to their original location. Should a ransomware infection managed to get in, detailed historical tracking of where infection originated and how it propagated will be reported courtesy of the Threat (RCA). Must be able to protect from ransomware that encrypts the master boot record and attacks that whipe the hard disk. AMSI Protection Must be able to protect against malicious code (for example, PowerShell scripts) usin Microsoft Antimalware Scan Interface (AMSI). Must be able to monitor and restrict the transfer of files containing sensitive data. Must have the capability to create custom DLP policies or policies from templates. Must have the capability to reate custom DLP policies or policies from templates. Must have the capability to control and restrict removable mass storage devices (USB s CD Rom, USB external hard drives, iPods, MP3 players, etc.), as well as connection de (Wi-Fi, Bluetooth, In	o run
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24 Application Control	
Must have the capability to limit the applications needed for specific user groups.	
Must be able to detect and block application categories that may not be suitable for use	in an
enterprise environment.	
Must have application categories for commonly used applications.	
25 Web Control	
Must be able to block risky downloads, protect against data loss, prevent users from acce	ssino

	web sites that are inappropriate for work, and generate logs of blocked visited sites.
	Must have security options to configure access to ads, uncategorized sites, or dangerous
	downloads.
	Must provide the administrator the ability to define "acceptable web usage" settings (defined by categories) in order to control the sites on which users are allowed to visit. Admin must have control access to websites that have been identified and classified in their own categories.
	Must have a data loss protection option that allows the administrator to control access to webbased email and file downloads, with choices of blocking the data, allowing data sharing, or customizing this choice.
26	Windows Firewall Policy
	Must be able to monitor and configure Windows Firewall on managed computers and servers using a Windows Firewall policy. Must be able to apply the Windows Firewall policy to individual devices (computers or servers) or groups of devices.
27	Root Cause Analysis
	Must have the capability to identify what happened, where a breach originated, what files were impacted, and provides guidance on how to strengthen an organization's security posture. Must be able to record chain of events that occurred after an infection has been detected, enabling you to determine the origin of the infection, any resulting damage to assets,
	potentially exposed data, and the chain of events leading up to the halting of the infection. Shall provide a summary of the event: What the exploit was discovered, where the beacon
	event occurred (an asset), when it occurred, how the infection succeeded. Eg. "Outlook.exe."
	Shall provide recommendations to address the problem: Things to look for post-attack. Eg. Aside from files being restored from encrypted ones, check browser settings to ensure no vulnerabilities were created as a result of the infections.
	Activity Record allows administrators to add notes to the case. All case-related notes will be listed in this column.
	There are also buttons to enable the admin to modify the status of the case (New, In Progress, Closed) and to set priority (Low, Medium, High). When closing, the administrator can add notes and is also required to confirm (via checkboxes) that remediation steps were taken: analyzed impact on files/assets and relevant environmental improvements were implemented.
	Shall provide a tabular view of everything affected during the attack. Items can be filtered based on type — e.g., files, processes, registry keys. The administrator can view information about each item, e.g., Filename (victim file or malware agent), process ID, start/stop timestamp of the event.
	Shall indicate the beginning of the root cause, charting out the series of events resulting from the attack as a collection of nodes. Each node contains specific information about files, processes, registry keys, etc. involved at that stage. The beacon event (marked with a blue dot) will be identified in the chain, but any events executed by the process identified as the beacon event will also be shown.
28	Advance System Clean
	Must have the capability to trigger a deep clean upon any active detection from exploit or ransomware detection.
	The next-gen endpoint shall provide advanced Clean detection of malware by looking for the following:
	A. Files
	flagged as bad
	File has been downloaded from the internet
	Author's name/version information is missing from file properties, i.e., Impersonating a common windows system file. Reboot survivability is vigorously protected.
	Un-common file extension used.
	Contains PE structure anomalies and suggestions of obfuscation

	B. Processes
	Listening for incoming connections
	Missing source executable file
	No UI elements
	Address Space Layout Randomization (ASLR) has been removed from the system.
29	Data Lake
	Must be able to run security queries on all managed devices, even if they are offline
	Must be able to query data from either:
	Endpoints that are currently connected (90 days of data stored on the device)
	The Data Lake in the cloud (30 days of cloud storage)
	Must be able to schedule queries.
	Must be able to guery security data from multiple Sophos products, including Sophos Firewal
	and Sophos Email, as well as Intercept X. Example use cases include:
	IT Operations
	Identify unmanaged, guest, and IoT devices
	Why is the office network connection slow? Which application is causing it?
	Look back 30 days for unusual activity on a missing or destroyed device
	Threat Hunting
	Extend investigations to 30 days without bringing a device back online
	Use ATP and IPS detections from the firewall to investigate suspect hosts
	Compare email header information, SHAs, and other IoCs to identify malicious traffic to a domain
30	Block Applications
	Must have an option to immediately detect and remove potentially malicious Portable Executable (PE) files from protected computers in the environment.
	Must have an option to block applications using their SHA-256 hash.
31	On-demand Threat Intelligence
	Must have an option to 'request intelligence' on suspicious files, which will upload the file to our malware research team for further analysis.
	Must be able to provide a report summary of the machine learning analysis of a suspiciou file.
	Must be able to provide a summary report with a more in-depth analysis of a suspicious file to help you decide if it's malicious or clean.
32	Endpoint Isolation
	Must have an option to 'manually isolate' protected endpoints from the network while
	investigating a threat case.
	Must have an option to 'automatically isolate' compromised endpoints from the network.
33	Forensic Data Export
	Must have an option to generate a Forensic Snapshot of a malicious activity that occurred on protected endpoint.
	Must be able to convert the generated Forensic Snapshot into a format where advanced querie can be run, such as SQLite or JSON file format.
	Must have an option to enable audit of Windows Authentication events, which allow Forensic Snapshots to contain more information on logon events.
	Must have the capability to upload the forensic snapshot to an AWS S3 bucket.
34	Live Query
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	any question they can think of across their endpoints and servers.
	Must be based on Osquery that allows administrators to understand the current running state of a device.
	Must be able to quickly discover IT operations issues to maintain IT hygiene and ask detailed
	questions to hunt down suspicious activity via SQL queries.
	Must have the capability to Pivot Queries that allows admins to select a significant piece of
	data in query results and use it as the basis for a new query.
	Must use powerful, out-of-the-box, fully-customizable SQL queries that can quickly search up
	to 90 days of current and historical on-disk data. Example use cases include:
	IT Operations
	Why is a machine running slowly? Is it pending a reboot?
	Which devices have known vulnerabilities, unknown services, or unauthorized browser extensions?
	Are there programs running that should be removed?
	Is remote sharing enabled? Are unencrypted SSH keys on the device? Are guest accounts enabled?
	Does the device have a copy of a particular file?
	Threat Hunting
	What processes are trying to make a network connection on non-standard ports?
	List detected IoCs mapped to the MITRE ATT&CK framework
	Show processes that have recently modified files or registry keys
	Search details about PowerShell executions
	Identify processes disguised as services.exe
35	Remote Access
	Must provide a command-line interface that can remotely access devices in order to perform a
	further investigation or take appropriate action.
	Must provide admins the capability to remotely connect to managed devices and get access to
	a command-line interface to perform actions such as:
	Reboot a device pending updates
	Terminate suspicious processes
	Browse the file system
	Edit configuration files
	Remote Access option must only be available to Admin accounts using Multi-Factor Authentication (MFA).
	Authentication (MFA).