## GOVERNMENT OF INDIA (Ministry of Home Affairs) COMMUNICATION & IT DIRECTORATE CENTRAL RESERVE POLICE FORCE EAST BLOCK-7, SEC-1, R.K. PURAM, NEW DELHI-110066

(Email:- comncell@crpf.gov.in Tele/Fax:011-26109038)

No. B.V-7/2024-25-C-(NAC)-Q

Dated, the June'2025

To

- 1. The DsG: AR, BSF, CISF, ITBP, NSG, SSB and BPR&D
- 2. Director, DCPW

## Subject: Regarding QRs/TDs of "NAC (Network Access Control)"

I am directed to refer on the subject mentioned above and to say that the QRs/TDs of "NAC (Network Access Control)" has been approved by the DG CRPF after deliberation and recommended by CAPFs sub-group and experts from DCPW.

Encl:-As above

{Harjinder Singh}

DIG (Communication)
Communication & IT Branch
Directorate General C R P F

No. B.V-7/2024-25-C-(NAC)-Q

Dated, the 1 June'2025

## Copy to:-

2. Mrs. Sugandhi, Technical Director, North block, MHA with request to upload the QRs/TDs of "NAC (Network Access Control)" on MHA website (e-mail ID: mpsugandhi@nic.in).

Encl:-As above

{Harjinder Singh}

DIG (Communication)
Communication & IT Branch
Directorate General C R P F

## QRs/TDs of NAC

S.N.	Specifications	Trial Directives
The pi	oposed solution shall meet the below specifications. Any	hardware/software/licenses
	ed to enable the functionality shall be provided from Day	
A.	Device Profiling and Visibility	
1	Automatic detection and categorization of endpoints for security and audit demands, regardless of device	Verification with OEM Tech brochure and Console
2	type.	Software
2	Stored profiling data should identify device profile changes and dynamically modify authorization	Verification with OEM Tech brochure and Console
	privileges. For example, if a printer appears as a Windows laptop, the system can automatically deny access. should support Load balancing for profile scans and Scheduled Subnet scans	Software
3	Support passive device profiling methods such as DHCP, Span Ports, HTTP User-Agent, MAC OUI / Finger Printing and TCP SYN-ACK handshakes	Verification with OEM Tech brochure and Console Software
1	Support active device profiling methods such as SNMP, Subnet Scan, SSH, Sflow/RSPAN, WMI and NMAP Scan	Verification with OEM Tech brochure and Console Software
5	Internal device fingerprint dictionaries that provide a way to automatically or manually update periodically. Capable to define custom fingerprints for wired and	Verification with OEM Tech brochure and Console Software
	wireless devices	
5	Offer a comprehensive dashboard to see the total number of endpoints, and the number by category,	Verification with OEM Tech brochure and Console
	family and device type.	Software
В	Authentication, Authorization and Accounting (AAA)	COSECUTO SECUE DE COOR
1	Integrated scalable AAA services (authentication, authorization, and accounting) including access policy management with a complete understanding of context, such as user's role, device type, location, time of day etc.	Verification with OEM Tech brochure and Console Software
2	User and device authentication based on 802.1X, and Web Portal access methods across multi-vendor wired networks, wireless networks, and VPNs	Verification with OEM Tech brochure and Console Software
3	Usage of multiple authentication protocols concurrently, such as PEAP, EAP-FAST, EAP-TLS, EAP-TTLS, and EAP-PEAP-Public.	Verification with OEM Tech brochure and Console Software
1	Must support RADSEC protocol to support RADIUS datagrams over TCP and TLS.	Verification with OEM Tech brochure and Console
	Should be able to work on all major OEM network switches.	Software
5	Must be supplied with fine-grained control using attributes from multiple identity stores, such as Microsoft Active Directory, Kerberos, LDAP-compliant directory, Open Database Connectivity (ODBC)-compliant SQL database, token servers, and internal databases across domains within a single policy from	Verification with OEM Tech brochure and Console Software

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1 / BT -		Trial Directives
S/No	and the land of printers IP phones. If	Verification with OEM Tech brochure and Console Software
	notyronic	Took
7	Integrated TACACS+ server for secure authentication of device administrators, operators etc. with varied privilege levels. It should keep a track of the changes	Verification with OEM Tech brochure and Console Software
8	made by the logged-in user.  Customizable Reporting with manual or scheduled reports in PDF/CSV formats, inventory dashboard showing details of learned devices, real-time monitoring of access requests and events, proactive alerts through Email	Verification with OEM Tech brochure and Console Software
9	HTTP/RESTful API's, syslog messaging and Extensions capability to exchange endpoint attributes with firewalls, SIEM, endpoint compliance suites and other solutions for enhanced policy management	Verification with OEM Tech brochure and Console Software
10	Mobile Device Management Integration to fetch information such as device manufacturer, model, OS Version, Jail-broken, presence of any black-listed application, MDM Agent installation status etc. and use this information in access policies	Verification with OEM Tech brochure and Console Software
	API Integration with helpdesk software allowing	Verification with OEM Tech
11	dynamic creation of problem tickets of any network	brochure and Console Software
12	triggered policy breaches  Inbuilt utilities for interactive policy simulation and monitor mode for assessing the policies before applying	Software
13	to the production network  Process inbound threat-related events (which are Syslog events received from any third-party vendor device, such as Firewall, SIEM) and perform enforcements and actions based	Verification with OEM Tech brochure and Console Software
14	on the defined enforcement policies and services.  Must have Multi domain and multiple AD and user database support for user information	Verification with OEM Tech brochure and Console Software
15	All the user machines must be evaluated before allowed on the network and thus must only deploy with a secured IEEE 802.1X architecture	Verification with OEM Tech brochure and Console Software
C	Crost Access Management	Wasification with OFM Tech
1	Easy-to-use guest management solution for visitors, contractors, partners, Auditors etc. on wireless and wired networks using any type of device.	Verification with OEM Tech brochure and Console Software Verification with OEM Tech
2	Guest access through captive portal with extensive branding and customization including company logos visual imagery and optional advertisements with multimedia content to extend organization's messaging	

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S/No	Specifications	Trial Directives	
3	Captive portal (Responsive Design to support different screen size) should have mobile device awareness to automatically size for smart phones, tablets and laptops	Verification with OEM Tech brochure and Console Software	
4	Guest self-registration through the web portal, delivering username and password directly to the visitor's Web browser, or sent via email or SMS.	Verification with OEM Tech brochure and Console Software	
5	Sponsor-based approval workflow to enable an internal employee to approve guest account before guest is allowed to access the network	Verification with OEM Tech brochure and Console Software	
6	Customize guest access privileges to enforce bandwidth limits, access to specific resources, length of connections and set automatic account expiry after a specified number of hours or days	Verification with OEM Tech brochure and Console Software	
7	Guest portal shall have an option to accept logins based on AD, RADIUS, IDAM or Social sites	Verification with OEM Tech brochure and Console Software	
8	Third-party integration providing customizable workflows using rest-based API's for delivering streamlined registration and payment system integration	Verification with OEM Tech brochure and Console Software	
D	Personal Device (BYOD) Management		
1	Automatically configure and provision mobile devices such as Windows, macOS, iOS, Android, Chromebook, and Ubuntu, enabling them to securely connect to enterprise network. Support for at least ( <i>No of Users defined by User Department</i> ) users on day one. Each user can have up to two devices and support Sponsor approval required option for Onboarding.	Verification with OEM Tech brochure and Console Software	
2	Offer built-in certificate authority (CA) to secure device onboarding without requiring the implementation of an external CA or make changes to an internal public key infrastructure (PKI). In case for some reason any OEM unable to provide inbuilt CA then can provide it externally, however from day one.	Verification with OEM Tech brochure and Console Software	
*	should work as a Root or Intermediate CA and support Self-help portal for certificate management	ne topici, areggin tegris.	
3	Ensure rapid revocation and deletion of certificates for specific mobile devices if a user leaves the organization or the mobile device is lost or stolen.	Verification with OEM Tech brochure and Console Software	
4	Support Online Certificate Status Protocol (OCSP)	Verification with OEM Tech brochure and Console Software	
5	Capable to define the number of devices that can be on-boarded per user and validity of their certificates	Verification with OEM Tech brochure and Console Software	

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/No	Chariffontions	Trial Directives
/ NO	Automatic device certificate provisioning/installation	Verification with OEM Tech
	with sponsor approval required option for onboarding	brochure and Console
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	Certificate Provisioning must work even after failover	Verification with OEM Tech
	Certificate Provisioning must work even after real	brochure and Console
	of its nodes	Software
	n de la companya de l	Verification with OEM Tech
	Must support Oauth and SAML 2.0 Identity Provider,	brochure and Console
	which allows seamless single sign-on (SSO) to the	
	aloud or on-premise applications.	Software
	Must support multiple multi-factor authenticators (MFA/2FA)	Verification with OEM Tech
)		brochure and Console
	(MFA/2FA)	Software
	Should support Secure certificate-based onboarding	Verification with OEM Tech
10	Should support Secure certificate passed strong /	brochure and Console
	and Automatic device certificate provisioning /	Software
	installation	Solew de
Đ	Endpoint Posture Checking	Verification with OEM Tech
1	Support Perform advanced endpoint posture	Verification with Oblin Teen
•	assessments to ensure organization's compliance is	brochure and Console
	mat hofore devices connect	Software
2	Support the following operating systems and versions:	Verification with OEM Tech
2	Microsoft Windows 10 and above, Apple mac OS	brochure and Console
	Microsoft windows to and discretiff	Software
	10.10 and above	Verification with OEM Tech
3	Support Users of unhealthy endpoints that do not	brochure and Console
	meet compliance requirements, should receive a	Software
	message about the endpoint status and instructions	Software
	have to achieve compliance	Verification with OEM Tech
4	Support Endpoint posture and health checks should	Verilication with Oblive reen
	include Installed Applications, Antivirus, Filewall,	brochure and Console
	Network Connections, Processes, Patch Management,	Software
	Peer to Peer applications, Virtual Machines.	
	Support to persistent agent for operating system to	Verification with OEM Tech
5	Support to persistent agent for operating of the end point with	brochure and Console
	provide nonstop monitoring of the end point with	Software
	automatic remediation and control	Verification with OEM Tech
6	Support Offer web-based dissolvable agent for	brochure and Console
	endpoint compliance check of personal and non-IT-	Software
	issued devices	Verification with OEM Tech
7	Must support detect multiple network interfaces and	
	Control it	brochure and Console
		Software
0	The solution must ensure standard based Zero Trust	Verification with OEM Tech
8	access network security framework with 24/7	brochure and Console
	access network security framework with 2 1/1	Software
	network policy compliance checking and enforcement.	
F	Management and Reporting	Verification with OEM Tech
1	Predefined templates for reporting must be available	brochure and Console
	보이 발표되면 함께 있다. 그리고 있는 사람들은 보고 있다. 그리고 있다. 보이 발표되는 것이 되었다.	
		Software Software
2	Solution must have built-in monitoring, reporting,	Verification with OEM Tech
2	and troubleshooting console to assist helpdesk	brochure and Console
1/ /	operators and administrators streamline operations.	Software
1	Solution must collect and keep forensic evidence on	Verification with OEM Tech
3	Solution must collect and keep forensic evidence on	brochure and Console
1///	any unauthorized access activity within the network	Software
	as follow: Event timestamp, network events in	
	sequence, host info, IP address, MAC address, switch	
	info etc.	

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S/No	Specifications	Trial Directives	
4	Solution must support capability to generate report for hardware (Memory, RAM, HDD, Peripheral devices, etc.), All installed software with version, Open ports, Service Running, Process Running and application inventory across managed extended enterprise.	Verification with OEM Tech brochure and Console Software	
5	Solution must be able to display information notifications in an interactive manner viz. bubble notification, email, etc.	Verification with OEM Tech brochure and Console Software	
6	The NAC solution should be able to integrate with Nextgen SIEM and other SOC components.	Verification with OEM Tech brochure and Console Software	
7	The proposed NAC solution should provide user-friendly policy management (policy search, policy updates, import/ export policies, etc.)	Verification with OEM Tech brochure and Console Software	
8	A reporting option must be available to provide a method for delivering validated templates to unique requirements in a timely manner.	Verification with OEM Tech brochure and Console Software	
9	Understanding trends, compliance and forensic analysis requires the ability to generate reports on data from selectable time frames in the past as well as on current data i.e. Specific date and time range	Verification with OEM Tech brochure and Console Software	
10	In order to provide the information needed to make decisions and minimize data overload reporting systems must provide robust filtering options.	Verification with OEM Tech brochure and Console Software	
11	Must have support for notifications via Email	Verification with OEM Tech brochure and Console Software	
12	Web-based user interface that simplifies policy configuration, monitoring and troubleshooting	Verification with OEM Tech brochure and Console Software	
G	Capabilities with Existing Unmanaged Switches	100000000000000000000000000000000000000	
1	The Proposed NAC solution should able to detect the endpoint at the instant it connects to Customer network	Verification with OEM Tech brochure and management Software	
2	The Proposed NAC solution should able to restrict communication to a non-compliant device which is connected to a hub/unmanaged switch, while another compliant device which should remain functional.	Verification with OEM Tech brochure and management Software	
Н	Capability of building complete device inventory &		
1	Solution should maintain an up-to-date/centralized inventory of authorized devices connected to network and authorized devices enabling the network	Verification with OEM Tech brochure and management Software	

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/No	Specifications	Trial Directives
	Solution must provide true-up enterprise endpoint	Verification with OEM Tech
	data with complete device inventory & context in	brochure and management
	automated manner.	Software
	Colution must be able to provide compliance for	Verification with OEM Tech
	Hardware properties on windows like Hardware	brochure and management
	Computer Disks Monitors, Motherboard, Network	Software
	Adapter, Physical Device, Physical Memory, Plug and	
	Play Device, Processor, etc.	
	Play Device, 1 locessor, etc.	
	Solution must automate the inventorying of IP-	Verification with OEM Tech
	connected assets across extended enterprise networks	brochure and management
	along with detailed information of hardware viz. Disks,	Software
	Monitors, Motherboard, Network Adapter, Physical	
	Device, Physical Memory, Plug and Play Device,	
	Processor, etc. Pinpoint the real-time location of all IP-	
	connected things, Continuously and accurately assess	
	connected things, Colliniaously and accuracy assert	
	all IP-connected devices.	
	n	
	Requirement Summary  The solution should be based Hardware appliance. The	Verification with OEM Tech
L	The solution should be based Hardware appliance. The solution must support minimum 500 (Number defined	brochure and management
	solution must support millimum 500 (Number defined	Software
	by User Department) endpoint support from Day-1.	
	The solution shall support minimum 200	Verification with OEM Tech
2	The solution shan support	1
	802.1x/RADIUS/TACACS+/Guest and minimum 50	Software
	clients/second for endpoint posture checking	
	FOO (Normal desided	Verification with OEM Tech
3	Licenses supporting minimum 500 (Numbers decided	
	by User department) concurrent sessions for AAA,	
	Endpoint posture check, Guest access, (Numbers	Software
	decided by User department) Endpoint Profiling and	
	(Numbers decided by User department) BYOD devices	
	from day-1. Solution Should scalable as per user	
	department.	Verification with OEM Tech
4	5-Year 24x7 Hardware and Software Warranty with	brochure and management
	perpetual / subscription licenses.	Software
		Software
J	OEM and Product Eligibility/Compliance	Firm will provide OEM
1	The solution shall be Common Criteria certified for	
	network access control (NAC) solution, under both the	
	Network Device collaborative Protection Profile (NDcPP	)
	and the Extended Package for Authentication	
	Servers modules. The certificate shall be attached as	8
	reference	
		e Firm will provide OEM
2	OEM shall have R&D facility in India; if required sit	Certificate
	visit shall be arranged	Certificate
		e Firm will provide OEM
	AAA shall be offered with minimum five years hardwar	
3	warranty with 24X7 OEM direct support along with	n Certificate
3	warranty ware	
3	software updates/upgrades	
3	software updates/upgrades	
3	software updates/upgrades	we go N
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S/No	Specifications	Trial Directives
4	Optional:	Firm will provide OEM
	On Site OEM certified Engg. (Be decided by user	Certificate
	department)	

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