

# TENDER FOR THE NETWORK SECURITY CENTER TECHNOLOGY REFRESH

Tender No: MCMC/NSD/NSMD(01)/TECH\_REFRESH/TC/05/2023(02)

## Questions & Answers

No.	Question	Answer
1	What this "TENDER FOR THE MCMC NETWORK SECURITY CENTER TECHNOLOGY REFRESH" about?	<p><b><u>Background</u></b></p> <p>MCMC Network Security Center (NSC) is a Security Operations Centre (SOC) setup located at level 7, MCMC HQ Tower 1, Cyberjaya (MCMC HQ); while MCMC NSC network equipment and servers are located in MCMC Data Center, Level 1, MCMC HQ Tower 1, Cyberjaya. The internet connectivity and cabling from Level 1 to Level 7 are already in place.</p> <p>MCMC NSC is seeking to refresh the related hardware/equipment including servers, workstations and network equipment.</p> <p><b><u>Technology Refresh (summary)</u></b></p> <ol style="list-style-type: none"><li>1. The equipment/hardware to be supplied and refreshed include:<ol style="list-style-type: none"><li>(a) Hyperconverged Computer Servers;</li><li>(b) NGFW Firewalls with UTM features;</li><li>(c) Redundant Switches with 10GB and 1GB throughout port;</li><li>(d) Desktop (iMac) and Laptop (MacBook Pro) Workstation;</li><li>(e) Windows Laptops (Windows 11)</li><li>(f) Speaker for video wall.</li></ol></li></ol>

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		<p><b><u>Disposal of old hardware/equipment</u></b></p> <ol style="list-style-type: none"> <li>1. To dismantle and remove the old equipment/hardware before installation of new equipment/hardware.</li> <li>2. The disposal is via “trade-in” scheme.</li> </ol> <p><b><u>Duration</u></b></p> <ol style="list-style-type: none"> <li>1. To undertake the stipulated Work for a duration of three (3) months - to supply, deliver, implement, migrate, test and commission the new equipment/hardware, software and licenses.</li> <li>2. To provide one (1) year of maintenance and support services.</li> <li>3. To provide half-yearly preventive maintenance activity with full report for twelve (12) months.</li> <li>4. To collect all old equipment/hardware (traded-in hardware/equipment) and transport them away from MCMC premise <b>after 30 days</b> of completion of UAT, on a date mutually agreed by the Successful Tenderer and MCMC.</li> </ol>
2	<p><b>Network Switch</b> 1G or 10G (Single or multimode) transceiver?</p>	May provide either single or multimode.
3	Staking Kit	Tenderer may choose to provide.
4	Redundant power supply required?	Tenderer may choose to provide.
5	<p><b>IMAC</b> Storage required, 256GB or 512GB?</p>	Higher specification is better.
6	<p><b>Cabling</b> Will there be a site visit session arrange for bidders to check on the required cabling works?</p>	Site visit can be allowed on per case basis, upon requested by tenderer. The cabling are only for Server, Firewalls and Switches, which are located within the Data Centre (Level 1). The cabling from the switches in Data Center (level 1) to Operations Center (Level 7) shall utilize existing cabling.

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7	<p>Can we provide equivalent or better spec from other brands?</p> <table border="1" data-bbox="226 331 1090 1114"> <tr> <td data-bbox="226 331 394 691">Server</td> <td data-bbox="394 331 958 691"> <p><b>Hyperconverged Compute Server</b> (total specification per 3 node)</p> <ul style="list-style-type: none"> <li>• Listed in Gartner Magic Quadrant;</li> <li>• Processor: 24 core;</li> <li>• Memory: 1152 GB RAM;</li> <li>• All-Flash Storage: 6 x 3.84 TB = 23.04 TB;</li> <li>• NIC: 6x 10GBase-T;</li> <li>• Licenses (redundancy):</li> <li>• Hypervisor;</li> <li>• Management.</li> </ul> </td> <td data-bbox="958 331 1090 691">3</td> </tr> <tr> <td data-bbox="226 691 394 1114">Switch</td> <td data-bbox="394 691 958 1114"> <p><b>Redundant Switches</b></p> <ul style="list-style-type: none"> <li>• PSUC9200-NM-4X module (4x 1G/10G network module);</li> <li>• PWR-C6-600WAC;</li> <li>• 24 x 10/100/1000 full PoE+ (8 mGig ports up to 10G, 16 ports up to 1G);</li> <li>• MAC address: 32, 000;</li> <li>• Switching capacity: 352 Gbps;</li> <li>• Forwarding performance: 261.90 Mbps;</li> <li>• License (3 years):</li> <li>• Cisco DNA Essentials;</li> <li>• Network Essentials.</li> </ul> </td> <td data-bbox="958 691 1090 1114">2</td> </tr> </table>	Server	<p><b>Hyperconverged Compute Server</b> (total specification per 3 node)</p> <ul style="list-style-type: none"> <li>• Listed in Gartner Magic Quadrant;</li> <li>• Processor: 24 core;</li> <li>• Memory: 1152 GB RAM;</li> <li>• All-Flash Storage: 6 x 3.84 TB = 23.04 TB;</li> <li>• NIC: 6x 10GBase-T;</li> <li>• Licenses (redundancy):</li> <li>• Hypervisor;</li> <li>• Management.</li> </ul>	3	Switch	<p><b>Redundant Switches</b></p> <ul style="list-style-type: none"> <li>• PSUC9200-NM-4X module (4x 1G/10G network module);</li> <li>• PWR-C6-600WAC;</li> <li>• 24 x 10/100/1000 full PoE+ (8 mGig ports up to 10G, 16 ports up to 1G);</li> <li>• MAC address: 32, 000;</li> <li>• Switching capacity: 352 Gbps;</li> <li>• Forwarding performance: 261.90 Mbps;</li> <li>• License (3 years):</li> <li>• Cisco DNA Essentials;</li> <li>• Network Essentials.</li> </ul>	2	<p>Server: as per specification or better, from any brand. Switch: as per specification.</p>
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8	<p>43.1.3. <b>Cabling management supply and works (Firewalls, Servers, Switches):</b></p> <p>(i) To remove existing equipment in the server rack (Firewalls, Servers, Switches); and</p> <p>(ii) To supply CAT6A network cables, perform the cabling works between the equipment for internet connectivity and cable labelling as follows:</p> <table border="1" data-bbox="309 451 1039 555"> <thead> <tr> <th>No</th> <th>Network Cable Make &amp; Model</th> <th>Network Cable Type</th> <th>Network Cable Length</th> <th>Network Cable Quantity</th> <th>CAT6A Patch Cords (3 meters)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>To be specified by the Tenderer</td> <td>CAT 6A</td> <td>As required</td> <td>As required</td> <td>As required</td> </tr> </tbody> </table> <p style="text-align: center;"><b>Table 5: Network Cabling Requirements</b></p> <p>Based on the screenshot above, is the cable required only for inter-rack cable in the same server room? Or will all the hardware be in the same 1 rack?</p>	No	Network Cable Make & Model	Network Cable Type	Network Cable Length	Network Cable Quantity	CAT6A Patch Cords (3 meters)	1	To be specified by the Tenderer	CAT 6A	As required	As required	As required	All the hardware will be in the same 1 rack.
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9	If it's inter-rack cable, can we get a server room layout with the measurement and rack position for the hardware we're going to supply?	All the hardware will be in the same 1 rack.												
10	Can you suggest how many cable units are needed? Is this cable only for connection between switches, servers and firewalls that will be supplied in this tender?	The cabling are only for server, firewalls and switches. Which are located within the Data Centre (Level 1). The cabling from the switches in Data Center (level 1) to Operations Center (Level 7) shall utilize existing cabling.												
11	What is the brand of the existing firewall?	The brand of the existing firewall is Stonesoft 1000 Series (as per listed in the APPENDIX D (a)).												
12	Are they (client) using or subscribe to any SIEM services? If yes, what is the SIEM brand or platform that they (client) are using right now?	No, not applicable.												