

## SPECIFICAȚII TEHNICE (F4.1)

						Alternativa nr.		
Numărul licitației:		ocds-b3wdp1-MD-1635761053413				Data: 09.11.2021		
Denumirea licitației:		Echipament informatic si echipament video (repetat)						
Cod CPV	Denumirea bunurilor și/sau a serviciilor	Modelul articolului	Țara de origine	Producătorul	Specificarea tehnică deplină solicitată de către autoritatea contractantă	Specificarea tehnică deplină propusă de către ofertant	Standarde de referință	
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<b>Lotul 2</b>								
32500000-8	Server	Lenovo ThinkSystems SR630 Type 7X02CTO1WW	China	Lenovo	<p>Server parameters:</p> <p>Number of CPU Sockets: 2</p> <p>Form factor (fully configured): 1U</p> <p>Form factor chassis: Rack</p> <p>Power supply type supported: 2 x 800W Flex Slot Platinum Hot Plug Power</p> <p>Power supply installed: 2</p> <p>Installed CPU qty: 2</p> <p>Expansion slots: 2xPCIe 3.0</p> <p>Memory:</p> <p>Installed Size: 4x32 Gb (two modules for every CPU) RDIMM module</p> <p>Total Memory slots: 24 DIMM slots</p> <p>Memory type: DDR4 SmartMemory, Advanced ECC</p> <p>Memory Form Factor: RDIMM / LRDIMM</p> <p>Hard Drive Supported: 8xSFF drives</p> <p>Dimensions: 4.29 x 43.46 x 70.7 cm</p> <p>Weight: 13.04 kg minimum, 16.27 kg maximum</p> <p>Server remote management module specifications:</p> <ul style="list-style-type: none"> <li>• Embedded ARM processor core operating at 800 MHz</li> <li>• PCI express based health and remote management ASIC</li> <li>• Firmware upgradeable VIA flash ROM</li> <li>• Video support: 1920 x 1200 (32 bp)</li> <li>• 10/100/1000 Mb/s network interface</li> <li>• HTML5 remote console (No dependency on JAVA or .NET)</li> <li>• Native browser support for Chrome, Firefox, Edge, Internet Explorer, Safari</li> </ul>	<p>1U Rack ThinkSystem SR630 2.5" Chassis with 10 Bays, 2x Intel Xeon Gold 6248R 24C 205W 3.0GHz, 4x ThinkSystem 32GB TruDDR4 2933MHz (2Rx4 1.2V) RDIMM, ThinkSystem RAID 930-8i 2GB Flash PCIe 12Gb Adapter RAID-0,1,10,5,50,6,60, 2x ThinkSystem 2.5" 300GB 10K SAS 12Gb Hot Swap 512n HDD, ThinkSystem x8/x16 PCIe LP+LP Riser 1 Kit, ThinkSystem 10Gb 2-port Base-T, QLogic 16Gb Enhanced Gen5 FC Dual-port HBA, 2x ThinkSystem 1100W (230V/115V) Platinum Hot-Swap Power Supply, 2x 2.8m, 10A/100-250V, C13 to IEC 320-C14 Rack Power Cable, ThinkSystem XClarity Enterprise Management Controller, ThinkSystem Toolless Slide Rail, 2x Lenovo 3m LC-LC OM3 MMF Cable for HBA, TPM 2.0 and Secure Boot, Enable IPMI-over-LAN, ThinkSystem 1U Security Bezel, XClarity Pro w/3 Years SW Subscription &amp; Support, 3 Years HW warranty (parts &amp; service &amp; Support)</p>		

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					<ul style="list-style-type: none"> <li>• Keyboard, video, mouse redirection</li> <li>• Virtual media support (VIA URLs)</li> <li>• Support for Online Certificate Status Protocol (OCSP) for CAC/SmartCard/Certificate based authentication</li> <li>• Support for RSA-PSS certificate signatures</li> <li>• The management processor must obtain its power from the auxiliary power plane of the server, so it must be always ON when the server is plugged into a power source. If the server provides Redundant Power Supplies (RPS) then the management processor will use redundant power and will continue operation in the event of a power supply failure.</li> <li>• Monitor and alerting on key internal server components: CPUs, memory, temperatures, fans, Smart Array controllers, hard drives (Including cache modules) and power supplies without installing any driver.</li> <li>• Ability to put harden management processor module for specific security requirements.</li> <li>• Possibility to prevent any possibility of tampering of security signatures throughout the supply-chain.</li> <li>• The system must give users preview of the system health summary and sub-system details.</li> <li>• Diagnostics tools/scanners wrapped into one; always on, continuous monitoring; Rich configuration history; health and service alerts; Easy export and upload to service and support.</li> <li>• Provisioning and configuring the server without any separate media (No Smart Cards or CDs).</li> <li>• Command line support: SSHv2, RESTful API and Serial port.</li> <li>• RESTful API options supported: get full inventory, control power and reset, configure BIOS and Smart Array settings, status of server health, fetch event logs.</li> </ul>		

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					<ul style="list-style-type: none"> <li>• Security: runtime firmware validation, CNSA support, security modes, encrypted virtual media.</li> <li>• Active directory support.</li> <li>• Management protocols supported: SNMP, IPMI V2.0.</li> <li>• Possibility to connect to the remote management module through a USB to ethernet cable.</li> </ul> <p>Some of the features may require additional license.</p> <p>USB3.0 support: 1 front port, 2 x rear ports and 2 x internal ports</p> <p>Power On/Standby button and system power LED</p> <p>UID button/LED</p> <p>MicroSD Card slot</p> <p>Warranty: 3/3/3 - Server Warranty includes three years of parts, three years of labor, three years of onsite support coverage.</p> <p>Not refurbished (Certificat/document care ar confirma că echipamentul nu este refurbished)</p> <p>Networking:</p> <p>2x10Gbps Base-T adapters</p> <p>802.1Q VLAN support</p> <p>Jumbo Frames: 9000KB</p> <p>Network adapter teaming</p> <p>CPU Parameters:</p> <p>CPU Cache: 35 MB</p> <p>CPU Clock Speed: 3 GHz</p> <p>CPU socket: FCLGA3647</p> <p>Max Turbo Speed: 4 GHz</p> <p>Number of Cores: 24-core</p> <p>Number of Threads: 48 threads</p> <p>Thermal Design Power: 205 W</p> <p>Lithography: 14nm</p> <p>Max Memory Size: 1TB</p>		

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					<p>Memory Type: DDR4-2933            Instruction Set Extensions: Intel® SSE4.2, Intel® AVX, Intel® AVX2, Intel® AVX-512            Hyper-Threading Technology: Yes            Execute Disable Bit: Yes            Security:</p> <ul style="list-style-type: none"> <li>• UEFI Secure Boot and Secure Start support</li> <li>• Immutable Silicon Root of Trust</li> <li>• FIPS 140-2 validation</li> <li>• Common Criteria certification</li> <li>• Configurable for PCI DSS compliance</li> <li>• Advanced Encryption Standard (AES) and Triple Data Encryption Standard (3DES) on browser</li> <li>• Smart card (PIV/CAC) and Kerberos based 2-factor Authentication</li> <li>• Secure Recovery - recover critical firmware to known good state on detection of compromised FW</li> <li>• Ability to rollback firmware</li> <li>• Secure erase of NAND</li> <li>• TPM (Trusted Platform Module) 1.2 option</li> <li>• TPM (Trusted Platform Module) 2.0 option</li> <li>• Bezel Locking Kit</li> <li>• Chassis Intrusion detection option</li> </ul> <p>Industry Standard Compliance:</p> <ul style="list-style-type: none"> <li>• ACPI 6.1 Compliant</li> <li>• PCIe 3.0 Compliant</li> <li>• WOL Support</li> <li>• Microsoft® Logo certifications</li> <li>• PXE Support</li> <li>• USB 3.0 Compliant</li> <li>• USB 2.0 Compliant (only on optional Universal Media Bay)</li> <li>• SMBIOS 3.1</li> </ul>		

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					<ul style="list-style-type: none"> <li>• UEFI 2.6 (Unified Extensible Firmware Interface Forum)</li> <li>• Secure Digital 4.0</li> <li>• TPM 1.2 and 2.0 support</li> <li>• Advanced Encryption Standard (AES)</li> <li>• Triple Data Encryption Standard (3DES)</li> <li>• SNMP v3</li> <li>• TLS 1.2</li> <li>• ASHRAE A3/A4</li> </ul> <p>UEFI Capabilities:</p> <ul style="list-style-type: none"> <li>• Secure Boot and Secure Start enable for enhanced security</li> <li>• Operating system specific functionality</li> <li>• Support for &gt; 2.2 TB (using GPT) boot drives</li> <li>• USB 3.0 Stack</li> <li>• Embedded UEFI Shell</li> <li>• PXE boot support for IPv6 networks</li> <li>• Workload Profiles for simple performance optimization</li> </ul> <p>UEFI Boot mode only:</p> <ul style="list-style-type: none"> <li>• TPM 2.0 Support</li> <li>• NVMe Boot Support</li> <li>• Platform Trust Technology (PTT) can be enabled</li> <li>• iSCSI Software Initiator Support.</li> <li>• HTTP/HTTPs Boot support as a PXE alternative</li> <li>• Boot support for option cards that only support a UEFI option ROM</li> </ul> <p>Supported Operating Systems:</p> <ul style="list-style-type: none"> <li>• Windows Server 2019: Essentials, Standard, Datacenter</li> <li>• Windows Server 2016: Essentials, Standard, Datacenter</li> <li>• Windows Server 2012 R2: Essentials, Standard, Datacenter</li> <li>• Microsoft Hyper-V Server: 2012 R2, 2016 &amp; 2019</li> <li>• VMware vSphere: 6.0 U3, 6.5 U2 through U.3 &amp; 6.7 U1 through U3, 7.0</li> <li>• ClearOS: 7.6; ClearVM: 2.0</li> <li>• Red Hat Enterprise Linux (RHEL): 7.6 w/ Kbase **, 8.0</li> </ul>		

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					<ul style="list-style-type: none"> <li>• SUSE Linux Enterprise Server (SLES): 12 SP3, 15 (includes Xen)</li> <li>• Ubuntu: 18.04 LTS (4.15.0)</li> <li>• Oracle Linux: Oracle Linux 7.6 UEK Release 5 Update 2; Oracle VM 3.4.6 (UEK Release 4 Update 7)</li> <li>• Citrix: Hypervisor: 8,0, 8.1, 8.2; XenServer 7.1, 7.4, 7.5, 7.6</li> </ul> HDD: 2x300 Gb SAS 12G Enterprise 10K SFF(2.5 in) hot swap. All additional components that will be ordered need to be installed. Sau echivalent: HPE ProLiant DL360 Gen10 ( SKU # P24743-B21		

Semnat: \_\_\_\_\_ Numele, prenumele: Valeriu Nastasenco În calitate de: Director  
 Ofertantul: IM Master Systems S.R.L. Adresa: Moldova, Chisinau MD 2021, str. Drumul Viilor 36/2