

Specificații tehnice

[Acest tabel va fi completat de către ofertant în coloanele 2, 3, 4, 6, 7, iar de către autoritatea contractantă – în coloanele 1, 5.]

Numărul procedurii de achiziție: ocds-b3wdp1-MD-1753881961729 din 06.09.2025
Obiectul achiziției: Centru informațional de date

Denumirea bunurilor/serviciilor	Denumirea modelului bunului/serviciului	Țara de origine	Producătorul	Specificarea tehnică deplină solicitată de către autoritatea contractantă	Specificarea tehnică deplină propusă de către ofertant	Standarde de referință
1	2	3	4	5	6	7
COMPARTIMENTUL SERVERE						
Infrastructura Servere	HPE Synergy 12000 CTO Frame		HPE	Infrastructură computing: 3 x Computing Servers with following configuration: 2 x CPU min. 2.3GHz, min. 32Cores, min. 144MB cache, DDR5 RAM 512GB DDR5-6400 RDIMM. min. 32 slots. Raid Controller with Raid 0, Raid 1 support. Boot disks min. 2 x 480GB SSD, used for hypervisor. Network card: 4 x 25Gb Intelligent Ethernet, RoCEv2 and NVMe/TCP support, with possibility to divide in logical ports. Security: TPM Module 2.0 included.	HPE Synergy 12000 CTO Frame HPE Synergy 12000 CTO Frame HPE SY480 Gen12 CTO Cmt Mdl Factory Integrated Intel Xeon 6530P CPU for HPE Factory Integrated	

				Fans: Redundant fans. Power Supply, Redundancy: 6 x min. 2600W, Titanium Efficiency, hot swap, N+1. Power cords included. Network interconnect: Redundant network connectivity module, with min. 16 x 100Gb Ethernet ports, dedicated management ports, console. Management: Remote KVM for each server, centralized management for all servers from a single dashboard, updates (including firmware) policies, security policies, operation automation and orchestration, integration with 3rd party host OS and monitoring systems. Scalability: future computing node updates without additional cost for network components, PSU, FANs. Architecture: All components must be compatible, validated as an architecture with full interoperability. Warranty: 3 years for software updates, hardware replacement on-site. Equipment must be registered at vendor support portal and attached to company profile for at least future access to support renewals, updates, notification, recommendations.	HPE 32GB 2Rx8 PC5-6400B-R Smart Kit Factory Integrated HPE SY480 Gen12 w/o Drv Front Cage Kit Factory Integrated HPE 480GB NVMe RI M.2 MV SSD Factory Integrated HPE Synergy NS204i-d v2 M.2 Boot Device Factory Integrated HPE Synergy 6310C 25/50Gb Eth Adptr Factory Integrated HPE SY480 Gen12 CPU Front Heat Sink Kit Factory Integrated HPE SY480 Gen12 CPU Rear Heat Sink Kit Factory Integrated HPE VC SE 100Gb F32 Module Factory Integrated HPE Synergy 4-port Frame Link Module FACTORY INTEGRATED HPE Synergy 12000F 6x 2650W AC Ti FIO PS HPE Synergy 12000 HC Fan Factory Integrated HPE Synergy 12000 Frame Rack Rail Option HPE Synergy 12000 Frame Rack Rail Option HPE Synergy 12000 Frame 4x Lift Handle HPE Synergy 12000 Frame 4x Lift Handle	
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					HPE Synergy Composer2 Appliance FACTORY INTEGRATED HPE 100Gb QSFP28 to QSFP28 3m DAC HPE 3Y Tech Care Basic SVC HPE Synergy 1200 Frame Supp HPE Synergy Composer2 Support HPE Synergy VC SE 100Gb F32 Module Supp HPE SY480 Gen12 Support HPE BLc 10G SFP+ SFP+ 3m DAC Cable HPE Technical Installation Startup SVC HPE Synergy First Frame Startup SVC	
COMPARTIMENTUL STOCARE ȘI BACKUP						
Sistem de stocare All Flash	HPE Alletra Storage MP B10000	China, Taiwan	HPE	All Flash Storage System, NVMe. Dual controller, with high availability and automatic failover. Chassis, 2U rackmount: dual controller and min. 24 x NVMe disk slots. Architecture: scalable and resilient architecture, clustered controllers with non-disruptive failover in case of failure or component updates. System must be scalable with more than 4 nodes. Disk included: min. 24 x 3.8TB NVMe disks, hot swap. Host ports per system: min. 6 x 10/25Gb Ethernet with support of NVMe/TCP, RDMA ; 8 x 32Gb FC. Storage protocols included: Block (at least iSCSI, FCP) and NAS (SMB, NFSv4). Storage features included: storage space efficiency mechanisms (data deduplication and compression),	HPE Virtual Rack HPE AL STG MP B10100 Base Configuration Factory Integrated HPE Alletra Stg ArcusOS /TB 3yr LTU Factory Integrated Configurator Defined Build Instructions HPE Alletra STG MP 10000 2U Chassis Factory Integrated HPE Alletra STG MP B10130 Cntrl Node Factory Integrated HPE Alletra STG MP 10/25GbE 4p HBA Factory Integrated	

			thin provisioning, LUN/Volume resize, LUN/Volume clone, LUN/Volume QoS, redirect on write snapshots and clones, replication (synchronous and asynchronous), antiransomware protection, MFA, multitenancy. All features must be covered with licenses. Redundancy: dual controller, redundant fans, power supply, management. Management and monitoring: Monitoring and management solution included for day one operation and activity, providing at least: performance indicators (latency, IOPS, throughput) for storage node, disks, cache, host ports, volumes/shares, headroom information, predictive information for performance and space grow, recommendations for system optimization or best proactive validation, alerts, proactive actions. Warranty: 3 years for software updates, hardware replacement on-site. Equipment must be registered at the vendor support portal and attached to the company profile for at least future access to support renewals, updates, notification, recommendations. ProActive support 24/7, up to 30-minute call to repair.	HPE 25Gb SFP28 SW E Temp 1-pack PT XCVR Factory Integrated HPE Alletra STG MP C14 1600W AC PS Factory Integrated HPE Alletra STG MP 3.84TB NVMe FE SSD Factory Integrated HPE C13 - C14 250V Blk 1.4m WW Pwr Cord Factory Integrated HPE C13 - C14 250V Gry 1.4m WW Pwr Cord Factory Integrated HPE Alletra STG MP CDM BT Conn Kit HPE Alletra STG MP CDM BT Conn Kit HPE Stg FIPS Data Encryption LTU FACTORY INTEGRATED HPE Premier Flex LC/LC OM4 2f 5m Cbl Factory Integrated HPE AL STG MP B10000 /TB 3yr SW/Sup SaaS HPE 3Y Tech Care Essential wDMR SVC HPE Alletra Stg MP Base Config Supp HPE Alletra Storage MP 2U Chassis Supp HPE Alletra StgMP 16C Swchles Node Supp HPE Alletra Stg 10/25GbE 4-port HBA Supp HPE Alletra MP 3.84TB NVMe FE SSD Supp	
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					HPE Alletra Storage MP B10000 SVC HPE Technical Installation Startup SVC HPE Alletra Storage Arcus OS Startup SVC HPE Alletra STG MPB10000 2NFld Srtup SVC	
COMPARTIMENTUL REȚEA ȘI CONECTIVITATE						
Switch rețea	HPE ARUBA 8325	China, Taiwan	HPE	Data Center network switches Chassis: rackmount chassis 19" with included rackmount kit. Architecture: redundant, non-blocking ports, low latency performance with L2 and advanced L3 routing protocols included. Ports: total of 72x10/25Gbps SFP28 ports, with possibility of using aggregated min. 4x40/100Gbps QSFP ports. Included SFP: min. 24x10Gb SFP+ SR modules, min. 8x25Gb SFP SR modules Performance: min. 3.4Tbps, converged and lossless ethernet Included features: IEEE 802.1Qbb (Priority Flow Control);IEEE 802.1Qaz (Enhanced Transmission Selection); DCBX (Data Center Bridging Exchange Protocol); Routing included (BGP, OSPF, IS-IS) overlay included (VXLAN EVPN) VLAN tagg. (802.1Q),LACP; Trunking; STP, RSTP; Link Aggregation, vPC or equivalent; MACSec (AES-256) included; QoS. Management: dedicated console port, 1x100/1000Base-T out-of-band Redundancy: (1+1) hot swappable PSU, FANs (N+1). Warranty: 3 years for software updates, hardware replacement on-site. Equipment must be registered at vendor support portal and attached to company	Aruba 8325-48Y8C Pwr2Prt Bdl HPE Aruba 8325-48Y8C Pwr2Prt Bdl HPE EU en HPE 25Gb SFP28 SW E Temp 1-pack PT XCVR Aruba 10G SFP+ LC SR 300m MMF XCVR HPE Aruba 100G QSFP28 to QSFP28 1m DAC HPE Aruba 10G SFP+ to SFP+ 1m DAC for HPE Aruba 4-post Rack Kit for HPE	

				profile for at least future access to support renewals, updates, notification, recommendations., certificat CE/ISO		
COMPARTIMENTUL INFRASTRUCTURĂ ȘI MATERIALE AUXILIARE						
UPS tip tower, 10 kW	Eaton 93PX 15 - 20 kVA UPS	China	EATON	Modular UPS Characteristics: online, min. 10kVA 3-phase, double conversion eff. min. 96%. Autonomy: min. 11 minutes at 8KW load. Battery modules: min. 2 x 16x9Ah VRLA long life. Management: SNMP/Web. Formfactor: rackmount, up to 12U Warranty: 2 years, on-site with next business day parts replacement from local ZIP stock.	Cu respectarea cerintelor autoritatii contractante insa performanta este peste cerinte. Vedeti fisa de date enexata fara respectarea cerintei de inlocuire a piseselor nbd.	
Rack server 42U	HPE 42U 800x1075 Ent G2 Pallet Rack	China Taiwan	HPE	Rack server 42U, 19", min. 800x1000mm, perforated door, grounding kit, wheels, cable organizer, EN 61587-1/CE	HPE 42U 800x1075 Ent G2 Pallet Rack HPE G2 Rack Grounding Kit HPE G2 Rack 42U 1075mm Side Panel Kit	
Filtru de alimentare pentru rack	HPE/EN G3 M 3PW 11kVA MH WW PDU	China, Taiwan	HPE	Power distribution unit Type: Rack PDU, Monitored on LAN, 0U space. Characteristics: 16A, 220V/380V with 3m x IEC60309, sockets min. 30xC13, additional 6 x C19. Warranty: 2 years.	HPE/EN G3 M 3PW 11kVA MH WW PDU	
Organizator de cabluri pentru rack		China		Organizator cabluri frontal/vertical, compatibil rack 19", min. 12 treceri, CE/ISO	Conform cerintelor	
COMPARTIMENTUL LUCRĂRI ȘI SERVICII ASOCIATE						
Lucrări de instalare și configurare echipamente	Servicii instalare si configurare	Moldova	S&T Mold	Instalare fizică a serverelor, rețelei, stocajului, montare în rack, conectare cabluri, testare, validare funcțională, configurare IP și management, etichetare, standard EN/ISO	Instalare fizică a serverelor, rețelei, stocajului, montare în rack, conectare cabluri, testare, validare funcțională, configurare IP și management, etichetare, standard EN/ISO	
Instruire personal IT	Instruire personal IT	Moldova	S&T Mold	Instruire tehnică pentru personal IT privind administrarea, monitorizarea și mentenanța platformei, certificat de participare, EN/ISO	Instruire tehnică pentru personal IT privind administrarea, monitorizarea	

					și mentenanța platformei, certificat de participare, EN/ISO	
Suport tehnic post- implementare	Suport tehnic post- implementare	Moldova	S&T Mold	Suport la distanță/telefonice pentru întrebări, troubleshooting, consultanță timp de 12 luni după livrare, inclus în garanție, EN/ISO	Suport la distanță/telefonice pentru întrebări, troubleshooting, consultanță timp de 12 luni după livrare, inclus în garanție, EN/ISO	

Cu stimă,

Andrei Cojocari, Chief Commercial Officer

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Data completării: 05.09.2025

Semnat: _____