MATRICE DE CONFORMITATE

Technical specifications per server.				
1.1	**Type**	Enterprise Server, Quantity = 16pcs.		**Server Dell EMC vSAN R760 Ready Node = 16 pcs.**
1.2	**Form factor**	Rack mount, max 2U (rail-kit included).		**2U Rack Mount Server (rail-kit included)**
1.3	**CPU included**	*Quantity:* 2 x CPU per server. *Cores:* 32cores per CPU. *Threads:* 64 threads per CPU. *Base Clock Speed:* Min. 2.60 GHz. *Cache:* Min. 50 MB. *Launch Date:* Not earlier than Q1'2023.		*Quantity:* **2 x 4th Generation Intel® Xeon® Platinum 8462Y+ Scalable Processors** *Cores:* **32cores per CPU** *Threads:* **64 threads per CPU** *Base Clock Speed:* **2.80 GHz** *Cache:* **60M** Launch Date: **Q1'23**
1.4	**Memory**	Min. 32 DDR5 slots.		**32 x DDR5 DIMM slots, support RDIMM 8 TB max, speeds up to 4800 MT/s**
1.5	**Memory included**	Min. 12 x 64GB DDR5.		**64GB RDIMM, 4800MT/s Dual Rank = 12 pcs**
1.6	**Min. drive bays included**	Min. 24 bays 2.5" for data, Support Hot-Swap drives. Min. 2 bays for OS boot, RAID 1, Support Hot-Swap drives.		**Up to 24 x 2.5" SAS/SATA/NVMe (HDD/SSD) Drives max 368.64 TB** **2 x Bays for OS boot, RAID 1, Support Hot-Swap drives**

1.7	Drives included	Min. 2 x 1.6TB SSD, Caching Tier, Endurance Class D , Performance Class F, SAS 24Gb/s, Hot-Swap. Min. 14 x 3.2TB SSD, Capacity Tier, Endurance Class D min.15000TBW, Performance Class F, SAS 24Gb/s, Hot-Swap. Drives SSD for vSAN should support min. vSAN releases 7.0U3-8.0U2. Min. 2 x 240GB SSD for OS boot, Hot-Swap.	**Caching Tier: 2 x 1.6TB SSD SAS Mixed Use up to 24Gbps, Endurance Class D , Performance Class F, Advanced format 512e, 2.5" Hot-Plug 3DWPD, AG Drive** **Capacity Tier: 14 x 3.84TB SSD vSAS Mixed Use 12Gbps Advanced format 512e, 2.5" Hot-Plug, 3DWPD, AG Drive SED Supports - Endurance Class D (15000TBW), Performance Class F, SAS 24Gb/s** **Drives SSD for vSAN should support min. vSAN releases 7.0U3-8.0U2** **Included 2 x M.2 NVMe SSD 480GB for OS boot, Hot-Swap**
1.8	Storage Adapters included	Should support Pass-through mode for all bays. Should be in vSAN compatibility guide. Should be compatible with min. vSAN releases 7.0U3-8.0U1. 1 x RAID controller for OS boot, 2 x M.2 SSD, RAID-1.	**Support Pass-Through mode for all bays** **In vSAN compatibility guide** **Compatible with min. vSAN releases 7.0U3-8.0U1** **1 x BOSS-N1 Controller card for OS boot with 2 x M.2 (RAID 1)**
1.9	NICs, ports, modules included (Server side)	Min. 2 x NIC's, 2 x 10/25GbE ports, identical NIC's models. NIC's should support network virtualization offload. NIC's should be in vSAN compatibility guide. NIC's should support min. vSAN releases 7.0U3-8.0U1. Min. 4 x SFP-10G-SR SFP+ MM modules. Min. 1 x Dedicated 1Gb/s Ethernet Port for remote management.	**2 x NIC's, 2 x 10/25GbE ports, identical NIC's models** **NIC's support network virtualization offload** **NIC's in vSAN compatibility guide** **NIC's support min. vSAN releases 7.0U3-8.0U1** **Min. 4 x SFP-10G-SR SFP+ MM modules** **1 x Dedicated 1Gb/s Ethernet Port for remote management**
1.10	Modules included (Switch side)	Min. 4 x SFP-10G-SR SFP+ MM (Cisco Compatible).	**4 x SFP-10G-SR SFP+ MM (Cisco Compatible)**

1.11	Interfaces included	Min. 2 x USB ports. Min. 1 x VGA port.	**Min. 2 x USB ports included** **Min. 1 x VGA port included**
1.12	Options included	Trusted Platform Module 2.0.	**Trusted Platform Module 2.0**
1.13	Supported operating environments	Microsoft Windows Server®. Microsoft Hyper-V®. Red Hat® Enterprise Linux. VMware® (VMware® vSphere, VMware® vSAN 7.0U3-8.0U1).	**Microsoft Windows Server®** **Microsoft Hyper-V®** **Red Hat® Enterprise Linux** **VMware® (VMware® vSphere, VMware® vSAN 7.0U3-8.0U1)**
1.14	Power supplies included	2 Hot-Swap PSU with support for 1+1 redundancy. Power cables c13-c14(0.6 m).	**Dual, Redundant (1+1), Hot-Plug PSU, 1800W MM HLAC (ONLY for 200-240VAC) Titanium, C16 Connector** **Included Power cables C13-C14 (1m)**
1.15	Fan Modules included	Hot-Swap with N+1 redundancy.	**Hot-Swap with N+1 redundancy**
1.16	Management included	A web-based solution for KVM must be included with full functionality for manage and monitoring, including at least: - View information about the state of the managed server; - Inventory and monitoring of network adapters and data storage subsystems without software agents in the OS; - View inventory information; - View information from sensors; - Monitoring and control of electricity consumption;	**Yes, fully compliant**

		- Turn on/off the server; - Remote update of BIOS, firmware of network and RAID controllers; - Virtual console, virtual media devices; - OS installation from virtual media devices and through network shared folders. Centralized resource management solution for hardware management must be included, with full functionality, that provides agent-free management, automates discovery, inventory, tracking, updates, monitoring, and provisioning".	
1.17	**Warranty**	Hardware and software support from vendor, with available customer portal. Next business day hardware replacement included for min. 3 years.	**Yes, fully compliant**
1.18	**Terms and conditions**	All requirements are minimum and mandatory. One requirement must not limit another requirement. All components must be current and not advertised as EOS / EOL. The expansion of memory (ram) and storage capacity must not include any hardware or software limitations.	**Yes, fully compliant**

		Faulty storage drives are not subject of return in order to be compliant with the security requirements.	

Note: Upon request, the full configuration with manufacturer codes and complete component names can be provided.