

Annexure - I

Sno	Specifications for 1 GIG 24 Port Switch	Compliance Yes / No	Remarks
I	Architecture		
1	24 RJ-45 autosensing 10/100/1000 ports and fixed 4 SFP+ 56 (1/10/25/50 GbE ports)		
2	Power consumption in accordance with IEEE-802.3z		
3	The switch should have 1 dual-personality (RJ-45 or USB micro-B) serial console port		
4	8GB SDRAM, 32 GB of Flash Memory and 8 MB Packet buffer size		
5	The Switch should have ASIC from the same OEM of the Switch		
6	Shall have switching capacity of 448 Gbps		
7	Shall have up to 334 million pps switching throughput		
8	The Switch should support 32000 MAC address		
9	Stacking with minimum support 10 Switches along with minimum 200Gbps of Stacking Backplane		
10	Integrated Network Visibility and Analytical Capability		
11	The switch should have Modular operating system with OVSDB to support a database-centric operating system.		
12	The switch should support Auto-MDIX to provide automatic adjustments for straight-through or crossover cables on all 10/100/1000 and 1/10/25/50 Gig ports		
13	The switch should support ACL with 5000 access control entries (Ingress) and QoS for IPv6 network traffic		
14	Hot Swappable redundant Power Supply and should have minimum 2 fan tray		
15	The switch should support automation and programmability using built-in REST APIs and Python scripts		
16	Some of the benefit by having python would be taking the backup of the previous configuration automatically, monitoring the App health. Script to help monitoring the App health		
17	The switch should support Zero-Touch Provisioning (ZTP)		
18	The switch should support IEEE 802.1Q (4094 VLAN IDs) and 2K VLANs simultaneously		

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II	Layer 3 routing		
1	The switch should support minimum 64000 unicast and 8000 IPv4 multicast Routing entries		
2	The Switch should support VXLAN, EVPN		
3	The switch should support OSPFv2, OSPFv3 and BGP4 protocols for routing between access and the next layer on the LAN.		
4	The switch should support Policy-based routing		
III	Security		
1	The switch should support IEEE 802.1X		
2	The switch should support Web-based authentication		
3	The switch should support MAC-based authentication		
4	The switch should support Multiple IEEE 802.1X users per port		
IV	Environmental Features		
1	Shall support IEEE 802.3az Energy-efficient Ethernet (EEE) to reduce power consumption		
2	Operating temperature of 0°C to 45°C		
3	Safety and Emission standards including EN 60950; IEC 60950; VCCI Class A; FCC Class A		
V	Warranty and Support		
1	The below Warranty shall be offered directly from the switch OEM.		
2	Limited lifetime warranty with advance replacement and next-business-day shipment		
3	Software upgrades/updates shall be included as part of the warranty		
4	The OEM shall be consistently present in Leaders or Challengers quadrant in Gartner's Magic Quadrant for Wired and Wireless LAN Access Infrastructure for last 3 years (2019, 2018, 2017)		