| | Major Product Category -  Network service equipment(UNSPSC code - 43222600) | | | |
|---|---|---|---|---|

| | Product category -  Network Switch-L3 for Cloud(UNSPSC code - 43222612) | | | |
|---|---|---|---|---|
| | **Basic Information** | | | |
| 1 | **Type of Switch** | Enumerable | Network Switch-L3 for Cloud | Golden |
| 2 | **Number of Years upto which Support is available from OEM** | Enumerable | 1,2,3,5 | Golden |
| | **Features of Network Switch-L3 for Cloud** | | | |
| 3 | **Network Switch-L3 Features 1** | Enumerable | 1. The Switch capable to support non-blocking Layer 2 switching and Layer 3 routing.   2. Switch capable to counter any single point of failure like power supplies and fans etc. by  having 1+1 for power supply and N+1 for FAN level of redundancy and both would be hot swappable.   3. Switch capability to support the complete STACK of IP V4 and IP V6 services.   4. Switch must have at least 48 x 10G/25G SFP ports and 6x 40/100 QSFP ports supporting multimode SFP and DAC for both 10G and 25G. The switch must be populated with at least 24X10G/25G modules and 4X40/100G modules.   5. Switch  must have dedicated console and out of band 1Gbps port.   6. Switch capable to  support VLAN tagging (IEEE 802.1q) and 4096 VLAN, Jumbo frames, IEEE Link Aggregation and Ethernet Bonding, MLAG or similar protocols.   7. The switch capable to  support 100K Ipv4 and 50K Ipv6 routes entries in the routing table including multicast routes, 20k Mac address   8. Switch capable to  support minimum 256 VRF instances. | Golden (Multiselect) |
| 4 | **Network Switch-L3  Features 2** | | 1.Switch capable to  support minimum 3.6Tbps of switching and  L3 routing capacity   2. Spanning Tree Protocol (IEEE 8201.D,802.1W,802.1S)   3. Capable to Support broadcast, multicast and unknown unicast storm control to prevent degradation of switch performance from storm due to network attacks and vulnerabilities   4. Switch capable to support all physical ports to use either in Layer2 or Layer 3 mode and also capable to  support layer 3 VLAN Interface and Loopback port Interface   5. Switch capable to  support static and dynamic routing (BGP and OSPF) for Ipv4 and Ipv6,multi instance MPLS and VXLAN routing using VRF/ VRF Edge/ Virtual Router routing and able to support VRF Route leaking functionality.   6. Switch capable to support for different type of QoS features for ream time traffic differential treatment.   7. Switch capable to  support Flow control of Ethernet ports to control traffic rates during congestion by allowing congested nodes to pause link operation at the other end for receiving traffic as per IEEE 802.3x   8. Switch capable to  support for deploying different security for each logical and physical interface using Port Based access control lists of Layer-2 to Layer-4 in IP V.4 and IP V.6 and logging for fault finding and audit trail | |

| 5 | **Network Switch-L3  Features 3** | Enumerable | 1. Switch capable to  support for external database for AAA using TACACS+, RADIUS<br>                    2. Switch capable to  support for Role Based access control (RBAC) for restricting host level network access as per policy defined<br>                    3. Switch capable to support for sending logs to multiple centralized syslog server for monitoring and audit trail<br>                    4. Switch capable to  provide remote login for administration using SSH V.2<br>                    5. Switch capable to  support for capturing packets for identifying application performance using local and remote port mirroring for packet captures<br>                    6. Switch capable to  support for management and monitoring status using different type of Industry standard NMS using in Ipv4 and Ipv6 environment using SNMPv1, SNMPv2c, SNMPv3<br>                    7. Switch capable to  support central time server synchronization using Network Time Protocol NTP V.4 | Golden (Multiselect) |
| 6 | **Any other Features** | Text | | Manadatory |