

**National Institute of Technology Karnataka, Surathkal
Central Computer Centre,**

Corrigendum – 01

Date: 30/09/2021

With reference to the Tender Notification No. “NITK/CCC/ONLINE-IntConn-SWITCH/2020-21/DOC4 Dated 23/09/2021” for the procurement of Interconnect Switches, the following amendments have been made with respect to few components in the technical specification. Please note that the other components mentioned in the advertised technical specification will remain unchanged.

Component	Description (Advertised)	Revised Description (Amended)
ISO Certification	Manufacturing facility/brand should be ISO 9001:2015, ISO 14001:2015	Manufacturing facility/brand should be ISO 9001:2015, ISO 14001:2015
	The OEM should be present in leaders segment of Gartner magic quadrant for wired and wireless lan access infrastructure, for the past 3 years "	The OEM should be present in Gartner magic quadrant in wired/Wireless segment or Data Centre Segment
Ports and Connectivity	Atleast 1 x out of Band IP based management Port, 1 x Console Port (with GUI based console), 1 x USB Port/External Flash Swicth should have stackable capacity and to stack upto 8 (or above) switches. Switch should support AC/DC Power Supply Switch should have dual hot swappable modular power supply and fan module.	Atleast 1 x out of Band IP based management Port, 1 x Console Port (with GUI based console), 1 x USB Port/External Flash Swicth should either have stackable capacity to stack upto 2 (or above) switches or should support HA with a support of minimum 2 switches. Switch should support AC/DC Power Supply Switch should have dual hot swappable modular power supply and fan module.
Switching /Routing	Switching bandwidth: Minimum 860 Gbps backplane with non blocking architecture and Forwarding rate should be atleast 700 Mpps	Switching bandwidth: Minimum 860 Gbps backplane with non blocking architecture and Forwarding rate should be atleast 700 Mpps
	Throughput: Minimum 720 Mpps or better	Throughput: Minimum 700 Mpps or better
	MAC Addresss: Minimum 256K MAC addresses	MAC Addresss: Minimum 256K MAC addresses
	Should Support 4K active user configuration vlans and 4K or more multicast group	Should Support 4K active user configuration vlans and 4K or more multicast group
	Should support 802.1d spanning Tree and PVST+, 802.1w, 802.1s, DCBx,PFC,VXLAN. Should have BPDU Guard or equivalent feature on edge port to auto disable port for a configurable time period to if an accidental loop occurs in the network. Should Support MPLS for future requirement. Should support aggregating and load balancing of traffic to two or more peer switches within same VLAN Should support ITU G.8032 or equivalent standard based protocol for ring backbone Should have Port based VLAN, MAC based VLAN, private	Should support 802.1d spanning Tree and PVST+, 802.1w, 802.1s, DCBx,PFC,VXLAN. Should have BPDU Guard or equivalent feature on edge port to auto disable port for a configurable time period to if an accidental loop occurs in the network. Should support aggregating and load balancing of traffic to two or more peer switches within same VLAN. Should have Port based VLAN, MAC based VLAN,

	vlan and 802.1 AK for dynamic VLAN propagation Should have Local, Remote and multisession port mirroring	private vlan and 802.1 AK for dynamic VLAN propagation Should have Local, Remote and multisession port mirroring
	Support Standard based protocols for lossless transport of real time data with dynamic QOS reservation. Should have 8 Hardware QOS Queues per port, Layer 2/3/4 Access Control Lists (ACLs), Q-in-Q from day 1. Switch should have IGMP Snooping, , MLDV1/MLDV2, IGMPV1/v2/v3 from day 1. Should have Link Layer Discovery Protocol and LLDP-MED for auto configuration Should have MAC address tracking and notification for mac address addition , delete or movement in the Network Should support policy based traffic redirection and IP route compression Should have basic dynamic routing protocols like RIPv1/v2, RIPng, PBR, VRRP, Lite OSPF and PIM-SM/SSM from day 1 and be Scalable to PIM-DM , BGP, ISIS in same hardware	Support Standard based protocols for lossless transport of real time data with dynamic QOS reservation. Should have 8 Hardware QOS Queues per port, Layer 2/3/4 Access Control Lists (ACLs), Q-in-Q from day 1. Switch should have IGMP Snooping, , MLDV1/MLDV2, IGMPV1/v2/v3 from day 1. Should have Link Layer Discovery Protocol and LLDP-MED for auto configuration Should have MAC address tracking and notification for mac address addition , delete or movement in the Network Should support policy based traffic redirection and IP route compression Should have basic dynamic routing protocols like PBR, VRRP, Lite OSPF and PIM-SM/SSM from day 1 and be Scalable to PIM-DM , BGP in same hardware
Routing Protocol:	Should support Static Route, RIP, OSPF, BGP, PBR from Day one for both IPv4 and IPv6 considering all License, software, hardware upgrades required if any.	Should support Static Route, OSPF, BGP, PBR from Day one for both IPv4 and IPv6 considering all License, software, hardware upgrades required if any.
	Switch should have BGP EVPN based fabric and Vxlan routing capabilities.	Switch should have BGP EVPN based fabric and Vxlan routing capabilities.
Storage protocols	Should support Data Center Infra, DCB, iSCSI FCoE considering all License.	Should support Data Center Infra, DCB considering all License.
Management Function		
Configuration	Should support encrypted communication between the user accessing the device namely using all access methods CLI, GUI or NMS via features like SSHv2, SSL, and SNMPv3 and Secure FTP/TFTP	Should support encrypted communication between the user accessing the device namely using all access methods CLI, GUI or NMS via features like SSHv2, SSL, and SNMPv3 and Secure FTP/TFTP
	Should support third party networking operating system in future. Switch should have openflow 1.3 for SDN functionality.	Switch should have openflow 1.3 for SDN or RestAPI or Netconf/XML or equivalent functionality

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