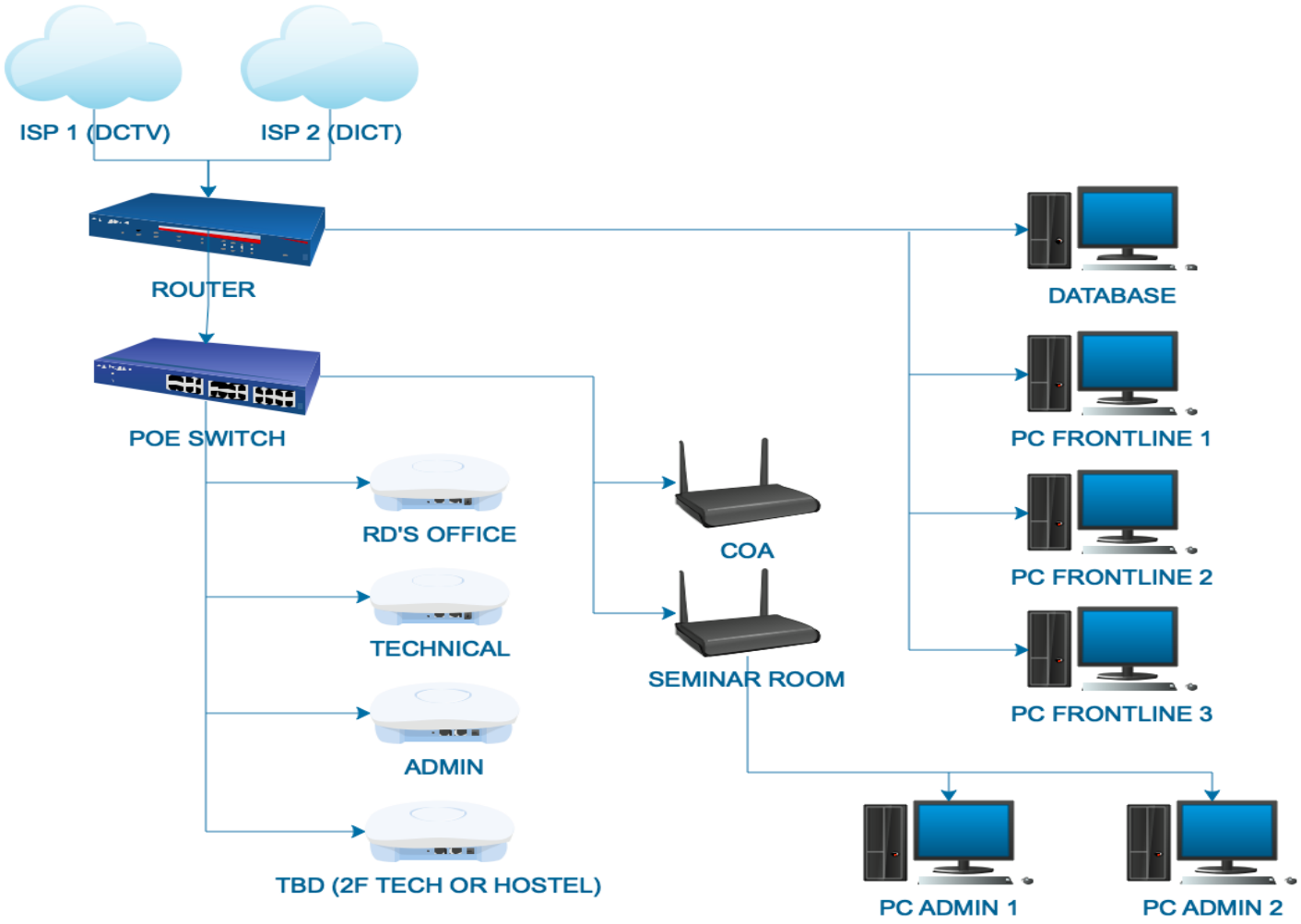
PROJECT: NTC-V OFFICE WIFI NETWORK
SCOPE OF WORK: SUPPLY, INSTALLATION AND CONFIGURATION

#	UNIT	DESCRIPTION		QTY
		MODEL	SPECIFICATION	
1	CLOUD MANAGED GATEWAY	Fixed ports	10 10/100/1000M Base-T ports， supporting up to 4 WAN ports （Default: 1 WAN port and 9 LAN ports LAN8, LAN7 and LAN6 can be switched to WAN ports）	1
		RAM	256MB	
		Flash	16MB	
		Max. no. of clients	Up to 200 concurrent clients	
		Recommended bandwidth	600M asymmetric bandwidth (flow control disabled) 500M asymmetric bandwidth (flow control enabled)	
		Network access	PPPoE dial-up, DHCP client, static IP, automatic identification of access methods, automatic avoidance of WAN port address conflicts, MAC cloning, obtaining account passwords from existing routers	
		Routing	Static routing, policy-based routing, carrier address routing, active/standby mode, load balancing based on source address, flow-based load balancing, port-based weighted load balancing of data streams	
		Security	ACL, IP-MAC binding, MAC address filtering, dynamic ARP, static ARP binding, NAT, NAPT, port mapping	
		VPN	IPsec VPN (8 tunnels) server and client, L2TP, PPTP	
		Management capacity	In AC mode, the maximum management capacity is 500 In gateway mode, the maximum management capacity is 150	
		AP management	Support multi-SSID configuration, SSID hiding, channel setting, power setting, AP wired port setting, AP online upgrade, STA quantity setting, STA blacklist and whitelist	
		Roaming	Support local forwarding roaming, Layer 2 roaming, Layer 3 roaming between APs, viewing of STA roaming track	
		Management capacity	Maximum manageable cloud managed switches: 128	
2	CLOUD MAANAGED L2 POE SWITCHES	Ports	8 10/100/1000 Base-T ports (802.3 af/at compliant), 1 10/100/1000 Base-T port	1
		Max output power per PoE port	30W	
		Max PoE output power per switch	120W	
		Switching capacity	18Gbps	
		Packet forwarding rate	13.392Mpps	
		VLAN	Support 802.1Q VLAN	
		Port management	Support port status display, port traffic statistics, PoE port output power status, port duplex / negotiation rate configuration, flow control configuration, PoE output on/off	
		L2 features	Support port mirroring, loop protection, cable detection	
		Management	Support management and configuration through web management interface, Cloud platform and Cloud app	
		Static MAC address	16	
		Type	Indoor Ceiling/Wall-mounting	
		Radio	Concurrent Dual-band	
		Protocol	802.11a/b/g/n/ac Wave2	

3	ACCESS POINT	Operating Bands	802.11b/g/n: 2.4GHz to 2.483GHz 802.11a/n/ac: 5.150GHz to 5.350GHz, 5.47GHz to 5.725GHz, 5.725GHz to 5.850GHz (vary depending on countries)	3
		Antenna	Built-in Omni-directional Antenna	
		Antenna Gain	2.4G: 3dBi 5G: 3dBi	
		Max Throughput	Maximum throughput of 2.4G: 300Mbps Maximum throughput of 5G: 867Mbps Maximum throughput per AP: 1167Mbps	
		Modulation	OFDM：BPSK@6/9Mbps，QPSK@12/18Mbps，16-QAM@24Mbps，64-QAM@48/54Mbps DSSS：DBPSK@1Mbps，DQPSK@2Mbps，and CCK@5.5/11Mbps MIMO-OFDM：BPSK, QPSK, 16QAM, 64QAM, 256QAM	
		Receiver Sensitivity	11b：-96dBm（1Mbps），-93dBm（5Mbps），-89dBm（11Mbps） 11a/g：-91dBm（6Mbps），-85dBm（24Mbps），-80dBm（36Mbps），-74dBm（54Mbps） 11n：-90dBm（MCS0），-70dBm（MCS7），-89dBm（MCS8），-68dBm（MCS15） 11ac HT20：-88dBm（MCS0），-63dBm（MCS9） 11ac HT40：-85dBm（MCS0），-60dBm（MCS9） 11ac HT80：-82dBm（MCS0），-57dBm（MCS9）	
		Ports	1 10/100/1000BASE-T Ethernet uplink;Port LAN1 supports PoE; 1 Console Port	
		Max clients per AP	256	
		Remote Intelligent Perception Technology (RIPT)	Support	
		Intelligent load balancing based on the number of users or traffic	Support	
		STA control	Support	
		Bandwidth control	Support	
		Preference for 5GHz (band select)	Support	
		Band Steering (5G Priority)	Support	
		IPv4 address	Static IP address or DHCP reservation	
		IPv6 address	Manual or automatic configuration	
		Multicast	Multicast to unicast conversion	
		Network management	SNMP v1/v2C/v3, Telnet, TFTP, Web management	
		Cloud AC management	Support	


ISP 1 (DCTV)
ISP 2 (DICT)
ROUTER
POE SWITCH
RD'S OFFICE
TECHNICAL
ADMIN
TBD (2F TECH OR HOSTEL)
COA
SEMINAR ROOM
DATABASE
PC FRONTLINE 1
PC FRONTLINE 2
PC FRONTLINE 3
PC ADMIN 1
PC ADMIN 2