

PREGLED POSTUPKA #104725

1 PODACI O NARUČIOCU

Naziv naručioca	UNIVERZITET CRNE GORE
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2 OSNOVNI PODACI

Opis predmeta javne nabavke	Isporuka i montaza zidnih i plafonskih WiFi acces pointa i povezane usluge
Status	U toku
Vrsta predmeta	Robe
Vrsta postupka	Jednostavna nabavka
Službenik za javne nabavke	Bojana Lučić Paielli
Kontakt	020/414-277; 067/740-188
Datum objave	03.12.2025. 13:10
Napomena	-

3 FAZE U POSTUPKU

Vrsta faze	Opis	Početak podnošenja	Kraj podnošenja	Datum otvaranja	Status
Zahtjev za podnošenje ponuda	Isporuka i montaza zidnih i plafonskih WiFi acces pointa i povezane usluge	03.12.2025 13:10	08.12.2025 10:00	08.12.2025 10:00	U toku

4 DODATNE INFORMACIJE

Predmet javne nabavke se nabavlja	kao cjelina
Posebni oblici javne nabavke	
Okvirni sporazum	Ne
Dinamički sistem nabavki	Ne
Elektronska aukcija	Ne
Elektronski katalog	Ne
Nabavka se sprovodi kao	
Zajednička nabavka	Ne
Centralizovana nabavka	Ne
Nabavka je	
Zelena	Ne
Društveno odgovorna	Ne

5 STAVKE PLANA

Godina	Opis	Vrijednost nabavke	Vrijednost PDV	Okvirni sporazum	Vrijednost OS	Vrijednost PDV OS	Vrsta postupka
2025	UNIVERZITET CRNE GORE Razna oprema - Fakultet likovnih umjetnosti 39300000 - Razna oprema	10.743,80 EUR	2.256,20 EUR	-	-	-	Jednostavna nabavka

6 USLOVI ZA UČEŠĆE U POSTUPKU I ZAHTJEVI U POGLEDU NAČINA IZVRŠAVANJA PREDMETA NABAVKE

Opis	Tip uslova / zahtjeva
Privredni subjekat dužan je dostaviti Izjavu ponuđača o ispunjenosti uslova utvrđenih zahtjevom i nepostojanju sukoba interesa, potpisanu od strane ovlašćenog lica privrednog subjekta. Izjava se daje na obrascu 2, koji se preuzima putem posebnog aplikativnog dijela elektronskog sistema javnih nabavki, shodno članu 9 stav 10 Pravilnika o načinu sprovođenja jednostavnih nabavki („Službeni list Crne Gore“, br. 016/23 od 10.02.2023. godine, br. 020/23 od 22.02.2023. godine, br. 036/23 od 29.03.2023. godine, br. 114/23 od 19.12.2023. godine, br. 049/24 od 29.05.2024. godine, br. 114/24 od 29.11.2024. godine).	Obrazac 2
Rok važenja ponude je: 30 dana od dana otvaranja ponuda.	Rok važenja ponude
Način plaćanja je: na žiro račun Dobavljača. Žiro račun: _____ Banka: _____ (Ponuđač je obavezan navesti broj žiro računa i naziv banke).	Način plaćanja
Rok plaćanja: u roku od 30 dana od dana dostavljene fakture i otpremnice, a na osnovu izvršene usluge i izvršene isporuke.	Rok plaćanja
Mjesto izvršenja ugovora; Fakultet likovnih umjetnosti, Cetinje.	Mjesto izvršenja ugovora
Rok izvršenja ugovora ne može biti duži od 20 kalendarskih dana od dana zaključenja ugovora o jednostavnoj nabavci. Ponuđači su dužni da se u svojim ponudama konkretno izjasne o roku koji nude imajući u vidu da je isti kriterijum za vrednovanje ponuda u okviru podkriterijuma kvalitet	Rok izvršenja ugovora

7 KRITERIJUMI ZA IZBOR NAJPOVOLJNIJE PONUDE

Opis
Cijena
Vrednovanje ponuda po osnovu parametra kvalitet se odnosi na rok iyvr[enja ugovora . Ponuđač koji ponudi najkraći rok iyvr[enja ugovora dobija maksimalan broj bodova, dok ostali ponuđači dobijaju proporcionalno manji broj bodova, koji se određuje prema formuli: $K = \frac{\text{Najkraći ponuđeni rok}}{\text{Ponuđeni rok} \times 20}$. Maksimalan rok iyvr[enja ugovora je 20 dana od dana zaključenja ugovora.

8 PREDMET NABAVKE

Procijenjena vrijednost nabavke: 10.743,80 EUR

TEHNIČKA SPECIFIKACIJA PREDMETA NABAVKE

	Opis predmeta nabavke	Bitne karakteristike predmeta nabavke	Količina
		"Isporuka i montaža zidnih AP za novu WiFi mrežu. Acces pointi se moraju integrisati u MESH mrežu i Cloud Wifi kontroler Wi-Fi Standards IEEE 802.11 a/b/g/n/ac/ax Antennas 4 single band internal antennas 2.4GHz x 2, gain 3.30dBi, gain 3.51dBi 5GHz x 2: gain 4.79dBi, gain 5.37dBi Wi-Fi Data Rates 5G: IEEE 802.11ax: 7.3 Mbps to 1201 Mbps IEEE 802.11ac: 6.5 Mbps to 867 Mbps IEEE 802.11n: 6.5Mbps to 300Mbps IEEE 802.11a: 6, 9, 12, 18, 24, 36, 48, 54 Mbps 2.4G: IEEE 802.11ax: 7.3 Mbps to 573.5 Mbps IEEE 802.11n: 6.5Mbps to 300Mbps IEEE 802.11b: 1, 2, 5.5, 11 Mbps IEEE 802.11g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps *Actual throughput may vary depending on many factors including environmental conditions, distance between devices,	

1	Isporuka I montaza zidnih WiFi acces pointa	radio interference in the operating environment and mix of devices in the network Frequency Bands 2.4GHz Radio: 2412 - 2484 MHz 5GHz Radio: 5180 - 5825 MHz *Not all frequency bands can be used in all regions Channel Bandwidth 2.4G: 20 and 40 MHz 5G: 20, 40 and 80 MHz Wi-Fi and System Security WEP, WPA/WPA2-PSK, WPA/WPA2 Enterprise (TKIP/AES); WPA3, anti-hacking secure boot and critical data/control lockdown via digital signatures, unique security certificate and random default password per device MIMO 2x2:2 2.4GHz 2x2:2 5GHz Coverage Range Up to 100 meters *coverage range can vary based on environment Maximum TX Power 2.4G: 24dBm 5G: 27dBm *Maximum power varies by country, frequency band and MCS rate Receiver Sensitivity 5G 802.11a: -92dBm @6Mbps, -74dBm @54Mbps; 802.11n 20MHz: -73dBm @MCS7; 802.11n 40MHz:-70dBm @MCS7; 802.11ac 20MHz: -67dBm@MCS8; 802.11ac: 40MHz:- 63dBm @MCS9; 802.11ac 80MHz: -59dBm @MCS9; 802.11ax 20MHz: -60dBm @MCS11; 802.11ax 40MHz:	9,00 kom
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-58dBm @MCS11;802.11ax 80MHz: -56dBm @MCS11
2.4G
802.11b: -96dBm@1Mbps, -88dBm@11Mbps; 802.11g:
-93dBm @6Mbps, -75dBm@54Mbps;
802.11n 20MHz: -73dBm @MCS7; 802.11n 40MHz:-70dBm
@MCS7
802.11ax 20MHz: -60dBm @MCS11; 802.11ax 40MHz:
-58dBm @MCS11
SSIDs 32 SSIDs total, 16 per radio (2.4GHz & 5GHz)
Concurrent Clients Up to 500+
Network Interfaces
1x 10/100/1000M uplink Ethernet port with PoE/PoE+
2x 10/100/1000M Ethernet ports with PSE
1x 10/100/1000M Ethernet port
Auxiliary Ports 1x Reset Pinhole
Mounting In-wall mountable
LEDs 1 tri-color LED for device tracking and status indication
Network Protocols IPv4, IPv6, 802.1Q, 802.1p, 802.1x,
802.11e/WMM
QoS 802.11e/WMM, VLAN, TOS
Network Management
Embedded controller can manage up to 50 local GWN APs
GWN.Cloud offers a free cloud management platform for
unlimited GWN APs
GWN Manager offers premise-based software controller for
up to 3,000 GWN APs
Power and Green Energy
Efficiency
Support 802.3az
PoE 802.3af/ 802.3at;
PSE Maximum Output Per Port: 6W; Maximum Power

	Consumption: 25W Environmental Operation: -10°C to 50°C Storage: -30°C to 60°C Humidity: 5% to 95% Non-condensing Compliance FCC, CE, RCM, IC, UKCA"	
	"Isporučka i montaža plafonskih AP za novu WiFi mrežu. Acces pointi se moraju integrisati u MESH mrežu i Cloud Wifi kontroler Wi-Fi Standards IEEE 802.11 a/b/g/n/ac/ax Antennas 8 individual internal antennas, 4 per band 2.4GHz, gain 3.5dBi 5 GHz, gain 4.5dBi Wi-Fi Data Rates 5G: IEEE 802.11ax: 7.3 Mbps to 4804 Mbps IEEE 802.11ac: 6.5 Mbps to 3467 Mbps IEEE 802.11n: 6.5Mbps to 600Mbps IEEE 802.11a: 6, 9, 12, 18, 24, 36, 48, 54 Mbps 2.4G: IEEE 802.11ax: 7.3 Mbps to 1147 Mbps IEEE 802.11n: 6.5Mbps to 600Mbps IEEE 802.11b: 1, 2, 5.5, 11 Mbps IEEE 802.11g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps *Actual throughput may vary depending on many factors including environmental conditions, distance between devices, radio interference in the operating environment and mix of devices in the network Frequency Bands	

2	Isporuka I montaza plafonskih WiFi acces pointa	2.4GHz Radio: 2400 - 2483.5 MHz 5GHz Radio: 5150 - 5895 MHz *Not all frequency bands can be used in all regions Channel Bandwidth 2.4G: 20 and 40 MHz 5G: 20, 40, 80 and 160 MHz Wi-Fi and System Security WPA/WPA2-PSK, WPA/WPA2 Enterprise (TKIP/AES); WPA3, anti-hacking secure boot and critical data/control lockdown via digital signatures, unique security certificate and random default password per device MU-MIMO 4x4:4 2.4GHz 4x4:4 5GHz Coverage Range Up to 175 meters *coverage range can vary based on environment Maximum TX Power 5G: 25.5dBm 2.4G: 26.5dBm *Maximum power varies by country, frequency band and MCS rate Receiver Sensitivity 2.4G 802.11b: -97dBm@1Mbps, -89dBm@11Mbps; 802.11g: -93dBm @6Mbps, -75dBm@54Mbps; 802.11n 20MHz: -73dBm @MCS7; 802.11n 40MHz:-70dBm @MCS7; 802.11ax 20MHz: -64dBm @ MCS11; 802.11ax 40MHz: -63dBm @MCS11 5G 802.11a: -93dBm @6Mbps, -75dBm @54Mbps; 802.11n 20MHz: -73dBm @MCS7; 802.11n 40MHz:-70dBm @MCS7	3,00 kom
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	802.11ac 20MHz: -70dBm@MCS8; 802.11ac: HT40:- 66dBm @MCS9; 802.11ac 80MHz: -62dBm @MCS9; 802.11ax 20MHz: -64dBm @ MCS11; 802.11ax 40MHz: -61dBm @MCS11;802.11ax 80MHz: -58dBm @MCS11; 802.11ax 160MHz:-55dBm @MCS11; SSIDs 32 SSIDs total, 16 per radio (2.4GHz & 5GHz) Concurrent Clients 512 Network Interfaces 2 x 2.5G Ports Auxiliary Ports 1x Reset Pinhole, 1x Kensington lock Mounting Indoor wall mount or ceiling mount, kits included LEDs 3 tri-color LEDs for device tracking and status indication Network Protocols IPv4, IPv6, 802.1Q, 802.1p, 802.1x, 802.11e/WMM QoS 802.11e/WMM, VLAN, TOS Network Management Embedded controller can manage up to 50 local GWN APs GWN.Cloud offers a free cloud management platform for unlimited GWN APs GWN Manager offers premise-based software controller for up to 3,000 GWN APs Power and Green Energy Efficiency PoE 802.3at; Maximum Power Consumption: 21W Environmental Operation: 0°Cto 50°C Storage: -10°C to 60°C Humidity: 10% to 95% Non-condensing Compliance FCC, CE, RCM, IC"	
	"Wi-Fi Standards IEEE 802.11a/b/g/n/ac (Wave-2) Antennas 4 detachable/changeable dual-band omnidirectional antennas	

2.4GHz, gain 3.5dBi

5GHz, gain 3.5dBi

Wi-Fi Data Rates

IEEE 802.11ac: 6.5 Mbps to 1733Mbps

IEEE 802.11a: 6, 9, 12, 18, 24, 36, 48, 54 Mbps

IEEE 802.11n: 6.5Mbps to 600Mbps; 800Mbps with 256-QAM on 2.4Ghz

IEEE 802.11b: 1, 2, 5.5, 11Mbps

IEEE 802.11g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps

*Actual throughput may vary depending on many factors including environmental conditions, distance between devices, radio interference in the operating environment and mix of devices in the network

Frequency Bands

2.4 GHz Radio: 2412 – 2484 MHz

5GHz Radio: 5150-5250MHz, 5250-5350MHz, 5470-5725MHz, 5725-5850MHz

*Not all frequency bands can be used in all regions.

Channel Bandwidth 2.4G: 20 and 40MHz

5G: 20, 40 and 80MHz

System Security

WEP, WPA/WPA2-PSK, WPA/WPA2 Enterprise, anti-hacking secure boot and critical data/control

lockdown via digital signatures, unique security certificate and random default password per device

MIMO 4x4:4 2.4G (MIMO), 4x4:4 5G (MU-MIMO)

Coverage Range Up to 300 meters

*Coverage range can vary based on environment

Maximum TX Power

2.4G: 27 dBm

3	Isporuka I montaza zidnih WiFi acces pointa	5G: 25 dBm *Maximum power varies by country, frequency band, and MCS rate Receiver Sensitivity 2.4G 802.11b: -96dBm@1Mbps, -88dBm@11Mbps; 802.11g: -93dBm @6Mbps, -75dBm@54Mbps; 802.11n 20MHz: -73dBm @MCS7; 802.11n 40MHz:-70dBm @MCS7 5G 802.11a: -92dBm @6Mbps, -74dBm @54Mbps; 802.11ac 20MHz: -67dBm@MCS8; 802.11ac: HT40:-63dBm @MCS9; 802.11ac 80MHz: -59dBm @MCS9 SSIDs 16 SSID per radio Concurrent Clients Up to 250+ Network Interfaces 2× autosensing 10/100/1000 Base-T Ethernet Ports Auxiliary Ports 1× Reset Pinhole Mounting Wall mount or pole mount - kits included LEDs 1× tri-color LEDs for device tracking and status indication Network Protocols IPv4/IPv6, 802.1Q, 802.1p, 802.1x, 802.11e/WMM QoS 802.11e/WMM, VLAN, TOS Network Management Embedded controller can manage up to 50 local GWN APs GWN.Cloud offers a free cloud management platform for unlimited GWN APs GWN.Manager (coming soon) offers premise-based software controller for up to 3,000 GWN APs Power and Green Energy Efficiency PoE 802.3at; Max Consumption: 16.5W	7,00 kom
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		Environmental Operation: -30°C to 60°C Storage: -30°C to 70°C Humidity: 5% to 95% Non-condensing Weatherproof Grade IP66-level weatherproof capability when installed vertically Compliance FCC, CE, RCM, IC"	
4	Povezivanje AP u MESH mrežu	"Podesavanje i povezivanje CAP uređaja. Podesavanje AP uređaja kao glavnog kontrolora WiFi mreže. Podesavanje pristupa na Fakultetske resurse i povezivanje na mrežu Univerziteta CG Podesavanje RE uređaja. Podesavanje AP uređaja za povezivanje na glavni kontroler WiFi mreže"	1,00 kom
5	Povezivanje WiFi sistema na Cloud Kontroler	Povezivanje WiFi sistema na Cloud kontroler proizvođača wifi opreme. Kreiranje naloga na kontroleru, kreiranje sigurnosnih politika, podesavanje Firewall i NAT prema postojećoj specifikaciji fakulteta, izrada captive portala i podesavanje pristupa captive portalu kroz naloge na socijalnim mrežama. Podesavanje Firewalla za propuštanje ovih zahtjeva	1,00 kom
6	Podesavanje WiFi mreže i povezivanje na EduRoam infrastrukturu	Integracija RADIUS autentifikacije u mrežu EduRoam i NTLR server	1,00 kom
7	Podesavanje i puštanje u rad Cloud kontrolera sa RADIUS autentifikacijom	Puštanje sistema u rad koje obuhvata: provjeru ispravnosti izvedene instalacije, povezivanje cloud kontrolera, podesavanje Cloud kontrolera, funkcionalno ispitivanje i puštanje u rad, obuku korisnika u rukovanju,	1,00 kom
8	Isporuka i montaža mrežnih kablova od rack ormara do AP	Isporuka i montaža mrežnog kablova cat6 U/FTP od spratnog rack ormara do access pointa. Terminiranje kablova na patch panelu u rek ormaru cca 40m po konekciji	3,00 kom

9	Isporučka i montaža kutija za skrivanje PoE napajanja	U slučaju prevelike dužine kablaze za napajanje antena sa centralnog reka, montirati kutije za potrebe skrivanja PoE napajanja. Pausal	1,00 kom
10	Molersko gipsarski radovi	Izvršiti proboje u potrebnim zidovima za potrebe montaze mrežnih kablova na gipsanom plafonu. Zatvoriti rupe na gipsanom plafonu i izvršiti vraćanje plafona u prvobitno stanje. Pausal	1,00 kom
11	Isporučka i montaža 24portnog LSA patch panela sa zaštitom	Isporučka i montaža 24 portnog patch panela LSA, 1U, rekabilni. Povezivanje kablova, označavanje konekcija i numerisanje na oba kraja	1,00 kom
12	Isporučka i montaža Upravljivog PoE+ switcha	"Switch sledećih karakteristika: L2+ PoE+ upravljivi 19"/1U svič, 16 x GE 802.3af/at PoE+ (300W) + 4 x SFP, IGMP/MLD Snooping, MVR, QoS/ACL, AAA sa RADIUS/TACACS+, 8K static, dynamic and filtering MAC addresses 4K VLANs, port-based VLAN, IEEE 802.1Q VLAN tagging, voice VLAN VLAN virtual interface 8 link aggregation groups Spanning tree, 16 instances for STP/RSTP/MSTP Multicast IGMP Snooping, MLD Snooping, MVR, QoS/ACL Auto detection and prioritization of voice/video/RTP/SIP/other latency-sensitive packets Port priority Priority mapping Queue scheduling, including SP, WRR, WFQ, SP-WRR and SP-WFQ Traffic shaping Rate limit 1.5K ACL for Ethernet, IPv4 and IPv6	1,00 kom

		DHCP server, DHCP relay, Option 82, 60,160 and 43 Maintenance CPU and memory monitoring, SNMP, RMON, LLDP&LLDP-MED, backup and restore, syslog, alert, diagnostics including Ping, Traceroute, port mirroring, UDLD (TBD) and copper test; Hijerarhijsko upravljanje korisnicima i zaštita lozinkom, HTTPS, SSH, Telnet 802.1X autentikacija Storm control Port izolacija, port zastita, sticky MAC Filterisanaje MAC adresa IP source guard, zastita od DoS napada , ARP inspekcija DHCP Snooping Loop i BPDU zastita, root zastita i loopback zastita Garancija minimum 24 mjeseca "	
13	Podesavanje L2+ Switcha	Podesavanje L2+ switcha za LACP agregaciju. Podesavanje L2+ Switcha za rad sa SNMP protokolom prema specifikaciji narucioca	1,00 kom
14	Podesavanje mreze I povezivanje na EduRoam infrastrukturu	Integracija RADIUS autentifikacije u mrezu EduRoam i NTLR server L2+ Switcha	1,00 kom
15	sitan potrosni materijal,pausal	PVC kanalice sitan potrosni materijal, pausal	1,00 kom
16	isporuka I montaza patch kabal 0.5m	isporuka I montaza patch kabal 0.5m do 1.5m	40,00 kom