

*Anexa nr. 7
la Documentația standard
aprobată prin Ordinul Ministrului Finanțelor
nr. 115 din 15.09.2021*

CERERE DE PARTICIPARE

Către: „Casa Națională de Asigurări Sociale”, Republica Moldova, MD-2028, mun. Chișinău, Gheorghe Tudor nr.3.

Stimați domni,

Ca urmare a anunțului/invitației de participare/de preselecție apărut în Buletinul achizițiilor publice, nr. **ocds-b3wdp1-MD-1713185535581** din „15” Aprilie 2024, privind aplicarea procedurii pentru atribuirea contractului **„Echipamentului pentru asigurarea funcționării rețelei corporative”**, noi **Î.M. „Orange Moldova” S.A.**, am luat cunoștință de condițiile și de cerințele expuse în documentația de atribuire și exprimăm prin prezenta interesul de a participa, în calitate de ofertant/candidat, neavând obiecții la documentația de atribuire.

Data completării 25.04.2024

Cu stimă,

Anatolie Bulgaru

Șef Diviziunea Suport și Elaborare Servicii IoT și ICT
Î.M. „Orange Moldova” S.A.

Acest act este semnat prin aplicarea **Semnăturii Mobile**
Verificarea semnăturii - <https://msign.gov.md/#/verify/upload>

**DECLARAȚIE
privind valabilitatea ofertei**

Către: „Casa Națională de Asigurări Sociale”, Republica Moldova, MD-2028,
mun. Chișinău, Gheorghe Tudor nr.3.

Stimați domni,

Ne angajăm să menținem oferta valabilă, privind achiziționarea **„Echipamentului pentru asigurarea funcționării rețelei corporative”** prin procedura de achiziție **Cererea ofertelor de prețuri**, pentru o durată de **60 zile, (șaizeci zile)**, respectiv până la data de **28.06.2024**, și ea va rămâne obligatorie pentru noi și poate fi acceptată oricând înainte de expirarea perioadei de valabilitate.

Data completării 25.04.2024

Cu stimă,

Anatolie Bulgaru
Șef Diviziunea Suport și Elaborare Servicii IoT și ICT
Î.M. „Orange Moldova” S.A.

Acest act este semnat prin aplicarea **Semnăturii Mobile**
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REPUBLICA



MOLDOVA

CERTIFICAT DE ÎNREGISTRARE

ÎNTRERINDERA MIXTĂ "ORANGE MOLDOVA" S.A.
ESTE ÎNREGISTRATĂ LA CAMERA ÎNREGISTRĂRII DE STAT

Numărul de identificare de stat - codul fiscal
1003600106115

Data înregistrării

18.03.1998

Data eliberării

24.04.2007

Bolboceanu Adela, registrator de stat

*Funcția, numele, prenumele persoanei
care a eliberat certificatul*

Semnatura

MD 0067000



Specificații tehnice

Numărul procedurii de achiziție: *ocds-b3wdp1-MD-1713185535581 (21213084)*

Obiectul achiziției: *Echipamentul pentru asigurarea funcționării rețelei corporative.*

Denumirea bunurilor/serviciilor	Denumirea modelului serviciului	Țara de origine	Producătorul	Specificarea tehnică deplină solicitată de către autoritatea contractantă	Specificarea tehnică deplină propusă de către ofertant	Standarde de referință	
1	2	3	4	5	6	7	
Lotul 1 Paravan de protecție (Next-Generation Firewall)							
Paravan de protecție (Next-Generation Firewall) cantitatea 1 - bucata.	Cisco Firepower 1120 NGFW	SUA	CISCO	Type	Next-Generation Firewall, cu 12 luni suport incluse care să acopere cerințele de mai jos.	Type	Cisco Firepower 1120 NGFW Appliance, 1U(FPR1120-NGFW-K9) Next-Generation Firewall , cu 12 luni(CON-SNT-FRP11209) suport incluse care acoperă cerințele de mai jos.
				Throughput: Threat Defense Software	2.3 Gbps	Throughput: Threat Defense Software	2.3 Gbps
				IPS Throughput	2.6 Gbps	IPS Throughput	2.6 Gbps
				Interfaces	8 x RJ45, 4 x SFP	Interfaces	8 x RJ45, 4 x SFP
				Throughput: Firewall (FW) + Application Visibility and Control (AVC) (1024B)	2.3 Gbps	Throughput: Firewall (FW) + Application Visibility and Control (AVC) (1024B)	2.3 Gbps
				Throughput: FW + AVC + Intrusion Prevention System (IPS) (1024B)	2.3 Gbps	Throughput: FW + AVC + Intrusion Prevention System (IPS) (1024B)	2.3 Gbps
				Maximum concurrent sessions, with AVC	200K	Maximum concurrent sessions, with AVC	200K
				Maximum new connections per	15K	Maximum new connections per	15K
						Moldova Standard	

				second, with AVC		second, with AVC		Moldova Standard
				Transport Layer Security (TLS)	850 Mbps	Transport Layer Security (TLS)	850 Mbps	
				IPSec VPN throughput (1024B TCP w/Fastpath)	1,2 Gbps	IPSec VPN throughput (1024B TCP w/Fastpath)	1,2 Gbps	
				Maximum VPN Peers	150	Maximum VPN Peers	150	
				Device Manager (local management)	Yes	Device Manager (local management)	Yes	
				Centralized management	Centralized configuration, logging, monitoring, and reporting are performed by the Threat Defense Manager (FMC) or, alternatively, from the cloud with Defense Orchestrator	Centralized management	Centralized configuration, logging, monitoring, and reporting are performed by the Threat Defense Manager (FMC) or, alternatively, from the cloud with Defense Orchestrator	
				AVC	Standard, supporting more than 4000 applications, as well as geolocations, users, and websites	AVC	Standard, supporting more than 4000 applications, as well as geolocations, users, and websites	
				Open-source application detectors	Standard	Open-source application detectors	Standard	
				Security Intelligence	Standard, with IP, URL, and DNS threat intelligence	Security Intelligence	Standard, with IP, URL, and DNS threat intelligence	
				IPS	Available; can passively detect endpoints and infrastructure for threat correlation and Indicators of Compromise (IoC) intelligence	IPS	Available; can passively detect endpoints and infrastructure for threat correlation and Indicators of Compromise (IoC) intelligence	
				Malware Defense for Networks	Available; enables detection, blocking, tracking, analysis, and containment of targeted and persistent malware, addressing the attack continuum both during and after attacks.	Malware Defense for Networks	Available; enables detection, blocking, tracking, analysis, and containment of targeted and persistent malware, addressing the attack continuum both during and after attacks. Integrated threat correlation with AMP for Endpoints is also	

				Integrated threat correlation with AMP for Endpoints is also optionally available		optionally available	
				Malware Analytics sandboxing	Available	Malware Analytics sandboxing	Available
				URL filtering: number of categories	More than 80	URL filtering: number of categories	More than 80
				URL filtering: number of URLs categorized	More than 280 million	URL filtering: number of URLs categorized	More than 280 million
				Automated threat feed and IPS signature updates	Yes: class-leading Collective Security Intelligence	Automated threat feed and IPS signature updates	Yes: class-leading Collective Security Intelligence
				Stateful inspection firewall throughput1	4.5 Gbps	Stateful inspection firewall throughput1	4.5 Gbps
				Stateful inspection firewall throughput (multiprotocol)2	2.5 Gbps	Stateful inspection firewall throughput (multiprotocol)2	2.5 Gbps
				Concurrent firewall connections	200,000	Concurrent firewall connections	200,000
				New connections per second	75,000	New connections per second	75,000
				IPsec VPN throughput (450B UDPL2L test)	1 Gbps	IPsec VPN throughput (450B UDPL2L test)	1 Gbps
				Maximum VPN Peers	150	Maximum VPN Peers	150
				Security contexts (included; maximum)	2; 5	Security contexts (included; maximum)	2; 5
				High availability	Active/active and Active/standby	High availability	Active/active and Active/standby
				High availability and clustering	Active/standby	High availability and clustering	Active/standby
Moldova Standard							

				Scalability	VPN Load Balancing	Scalability	VPN Load Balancing	Moldova Standard
				Adaptive Security Device Manager	Web-based, local management for small- scale deployments	Adaptive Security Device Manager	Web-based, local management for small- scale deployments	
				Form factor (rack units)	1RU	Form factor (rack units)	1RU	
				Integrated I/O, min	8 x RJ-45, 4 x SFP	Integrated I/O, min	8 x RJ-45, 4 x SFP	
				Integrated network management ports	1 x 10M/100M/1GBASE-T Ethernet port (RJ-45)	Integrated network management ports	1 x 10M/100M/1GBASE-T Ethernet port (RJ-45)	
				Serial port	1 x RJ-45 console	Serial port	1 x RJ-45 console	
				USB, min	1 x USB 3.0 Type-A (500mA)	USB, min	1 x USB 3.0 Type-A (500mA)	
				Storage, min	1 x 200 GB	Storage, min	1 x 200 GB	
				Power supply configuration	+12V	Power supply configuration	+12V	
				AC input voltage	100 to 240V AC	AC input voltage	100 to 240V AC	
				AC maximum input current	< 2A at 100V, < 1A at 240V	AC maximum input current	< 2A at 100V, < 1A at 240V	
				AC maximum output power	100W	AC maximum output power	100W	
				AC frequency	50 to 60 Hz	AC frequency	50 to 60 Hz	
				AC efficiency	>85% at 50% load	AC efficiency	>85% at 50% load	
				Fans	1 integrated fan2	Fans	1 integrated fan2	
				Noise	31.7 dBA @ 25C, 56.8 dBA at highest system performance	Noise	31.7 dBA @ 25C, 56.8 dBA at highest system performance	
				Rack mountable	Yes. Fixed mount brackets included (2- post).	Rack mountable	Yes. Fixed mount brackets included (2- post).	
				Humidity: operating	90% noncondensing	Humidity: operating	90% noncondensing	
				Humidity: nonoperatin g	10 to 90% noncondensing	Humidity: nonoperatin g	10 to 90% noncondensing	
				Regulatory compliance	Products comply with CE markings per directives 2004/108/EC and 2006/108/EC	Regulatory compliance	Products comply with CE markings per directives 2004/108/EC and 2006/108/EC	
				Safety	<ul style="list-style-type: none"> • UL 60950-1 • CAN/CSA-C22.2 No. 60950-1 • EN 60950-1 • IEC 60950-1 • AS/NZS 60950-1 • GB4943 	Safety	<ul style="list-style-type: none"> • UL 60950-1 • CAN/CSA-C22.2 No. 60950-1 • EN 60950-1 • IEC 60950-1 • AS/NZS 60950-1 GB4943 	

				<p>EMC: emissions</p> <ul style="list-style-type: none"> ●47CFR Part 15 (CFR 47) Class A (FCC Class A) ●AS/NZS CISPR22 Class A ●CISPR22 CLASS A ●EN55022 Class A ●ICES003 Class A ●VCCI Class A ●EN61000-3-2 ●EN61000-3-3 ●KN22 Class A ●CNS13438 Class A ●EN300386 ●TCVN7189 	<p>EMC: emissions</p> <ul style="list-style-type: none"> ●47CFR Part 15 (CFR 47) Class A (FCC Class A) ●AS/NZS CISPR22 Class A ●CISPR22 CLASS A ●EN55022 Class A ●ICES003 Class A ●VCCI Class A ●EN61000-3-2 ●EN61000-3-3 ●KN22 Class A ●CNS13438 Class A ●EN300386 TCVN7189 	
				<p>EMC: immunity</p> <ul style="list-style-type: none"> ●EN55024 ●CISPR24 ●EN300386 ●KN24 ●TVCN 7317 ●EN-61000-4-2, EN-61000-4-3, EN-61000-4-4, EN-61000-4-5, EN-61000-4-6, EN-61000-4-8, EN61000-4-11 	<p>EMC: immunity</p> <ul style="list-style-type: none"> ●EN55024 ●CISPR24 ●EN300386 ●KN24 ●TVCN 7317 EN-61000-4-2, EN-61000-4-3, EN-61000-4-4, EN-61000-4-5, EN-61000-4-6, EN-61000-4-8, EN61000-4-11 	
<i>Licente Software incluse cu NGFW solicitat la p. 1</i>				<p>Licente</p> <p>1. 1. Licență Threat Defense Threat, Malware and URL cu 1 ani subscripție.</p>	<p>L-FPR1120T-TMC-1Y Cisco FPR1120 Threat Defense Threat, Malware and URL 1Y Subs</p>	
<i>Alte cerințe obligatorii</i>				<p>- Produsul oferat trebuie să fie compatibil cu Cisco Firepower 1120, pentru configurarea despozitivului ca standby secondary device (High Availability).</p> <p>- Oferta va include instalarea, configurarea și darea in exploatare a produsului oferat, inclusiv transferul de cunoștințe către Beneficiar, pentru a permite celor instruiți să preia menținerea și configurarea ulterioară a echipamentului oferat, în conformitate cu necesitățile.</p> <p>- Pentru aceasta ofertantul va demonstra capacitatea sa prin prezentarea următoarelor:</p> <p>- Ofertantul va prezenta Certificat al</p>	<p>- Produsul oferat (Cisco Firepower 1120 NGFW) este compatibil cu Cisco Firepower 1120, pentru configurarea despozitivului ca standby secondary device (High Availability).</p> <p>- Oferta include instalarea, configurarea și darea in exploatare a produsului oferat, inclusiv transferul de cunoștințe către Beneficiar, ce va permite celor instruiți să preia menținerea și configurarea ulterioară a echipamentului oferat, înconformitate cu necesitățile.</p> <p>- Orange Moldova a prezentat Certificatele inginerilor tehnici din cadrul companiei pe produsul oferat și inclusiv Certificatul CiscoCertified Network</p>	<p>Moldova Standard</p>

				<p>inginerului tehnic din cadrul companiei ofertante pe produsul oferat și inclusiv certificatul Cisco Certified Network Associate Routing and Switching sau echivalentul.</p> <p>- Ofertantul va prezenta Autorizare (MAF) de la producător, actul care atestă dreptul oficial al reprezentantului pe teritoriul R. Moldova de a livra bunuri/lucrări/servicii.</p> <p>Termen de garanție – 1 an;</p>	<p>Associate Routing and Switching sau echivalentul.</p> <p>- Orange Molodva va prezenta Autorizare (MAF) de la producător, actul care atestă dreptul oficial al reprezentantului pe teritoriul R. Moldova de a livra bunuri/lucrări/servicii.</p> <p>Termen de garanție – 1 an</p>	
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Lotul 2 Switch

Switch	CloudEngine S5735-L48T4S-A-V2	China	Huawei	Type	Switch	Type	CloudEngine S5735-L48T4S-A-V2	Moldova Standard
				Rack Units (RU)	1RU	Rack Units (RU)	1RU	
				CPU	Min 800Mhz	CPU	Min 1100 Mhz	
				Memory (DRAM) default	Min 512 MB	Memory (DRAM) default	Min 2 GB	
				Flash memory	Min 256 MB	Flash memory	Min 1 GB	
				Interfaces	48x GE Rj-45 4x 1G SFP uplinks Console ports: RJ-45 Ethernet.	Interfaces	48x GE Rj-45 4x 1G SFP uplinks Console ports: RJ-45 Ethernet.	
				Management	CLI and/or intuitive web UI manageability options Device management support with over-the-air access via Bluetooth, Simple Network Management Protocol (SNMP), RJ-45, or USB console access	Management	CLI and/or intuitive web UI manageability options Device management support with Simple Network Management Protocol (SNMP), RJ-45.	

				Performance Forwarding bandwidth: 52 Gbps Switching bandwidth: 104 Gbps Forwarding rate(64— byte L3 packets) : 73,38 Mpps Unicast MAC addresses: 16000 IPv4 unicast direct routes: 542 IPv4 unicast indirect routes: 256 IPv6 unicast direct routes: 414 IPv6 unicast indirect routes: 128 IPv4 static routes: 16 IPv6 static routes: 16 IPv4 multicast routes and IGMP groups: 1024 IPv6 multicast groups: 1024 IPv4/MAC security ACEs: 600 IPv6 security ACEs: 600 Maximum active VLANs: 256 VLAN IDs available: 4094 Maximum STP instances: 64 Maximum SPAN sessions : 4 MTU-L3 packet: 9198 bytes Dying Gasp : yes Jumbo Ethernet frame: 10,240 bytes MTBF in hours (data):120000 ore	Performance Forwarding bandwidth: 168 Gbps Switching bandwidth: 224/520 Gbps Forwarding rate(64— byte L3 packets) : 168 Mpps Unicast MAC addresses: 32000 IPv4 unicast direct routes: 4096 IPv4 unicast indirect routes: 4096 IPv6 unicast direct routes: 1024 IPv6 unicast indirect routes: 1024 IPv4 static routes: 4096 IPv6 static routes: 1024 IPv4 multicast routes and IGMP groups: 1024 IPv6 multicast groups: 1024 IPv4/MAC security ACEs: 600 IPv6 security ACEs: 600 Maximum active VLANs: 4094 VLAN IDs available: 4094 Maximum STP instances: 0-4094 Maximum SPAN sessions : 4 MTU-L3 packet: 9600 bytes Dying Gasp : yes Jumbo Ethernet frame: 10,240 bytes MTBF in hours (data): 355,743.6 ore
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Data completării 25.04.2024

Anatolie BULGARU

Şef Diviziunea Suport și Elaborare Servicii IoT și ICT

Î.M. „Orange Moldova” S.A.

Acest act este semnat prin aplicarea **Semnăturii Mobile**

Verificarea semnăturii - <https://msign.gov.md/#/verify/upload>

Specificații de preț

Numărul procedurii de achiziție: <i>ocds-b3wdp1-MD-1713185535581 (21213084)</i>
Obiectul achiziției: <i>Echipamentul pentru asigurarea funcționării rețelei corporative.</i>

Cod CPV	Denumirea bunurilor/serviciilor	Unitatea de măsură	Cantitatea	Preț unitar (fără TVA)	Preț unitar (cu TVA)	Suma fără TVA	Suma cu TVA	Termenul de livrare/prestare	Clasificație bugetară (IBAN)
1	2	3	4	5	6	7	8	9	10
32420000-3	Lotul nr. 1								
	<i>1.1 Paravan de protecție (Next-Generation Firewall)</i>	Buc.	1	65,262.60	78,315.12	65,262.60	78,315.12	<i>Timp de 120 zile din data intrării în vigoare a contractului cu livrare și descărcarea în depozitul CNAS din str. Gheorghe Tudor nr. 3.</i>	MD84TRPFAH5187 10A01691AA
	<i>1.2. Licențe Software incluse cu NGFW solicitat la p. 1</i>	Buc.	1	37,791.00	45,349.20	37,791.00	45,349.20		
	<i>1.3 Alte cerințe obligatorii</i>	Buc.	1	32,760.00	39,312.00	32,760.00	39,312.00		
<ul style="list-style-type: none"> - Produsul oferit trebuie să fie compatibil cu Cisco Firepower 1120, pentru configurarea dispozitivului ca standby secondary device (High Availability). - Oferta va include instalarea, configurarea și darea în exploatare a produsului oferit, inclusiv transferul de cunoștințe către Beneficiar, pentru a permite celor instruiți să preia mentinerea și configurarea ulterioară a echipamentului oferit, în conformitate cu necesitățile. - Pentru aceasta ofertantul va demonstra capacitatea sa prin prezentarea următoarelor: - Ofertantul va prezenta Certificat al inginerului tehnic din cadrul companiei ofertante 									

	pe produsul oferit și inclusiv certificatul Cisco Certified Network Associate Routing and Switching sau echivalentul. - Ofertantul va prezenta Autorizare(MAF) de la producător, actul care atestă dreptul oficial al reprezentantului pe teritoriul R. Moldova de a livra bunuri/lucrări/servicii. Termen de garanție – 1 an;									
Total Lot 1					135,813.60	162,976.32				
Lotul nr. 2										
	2.1Switch	Buc.	16	11,417.91	13,701.50	182,686.61	219,223.93	<i>Timp de 120 zile din data intrării în vigoare a contractului cu livrare și descărcarea în depozitul CNAS din str. Gheorghe Tudor nr. 3.</i>		MD84TRPFAH5187 10A01691AA
Total Lot 2					182,686.61	219,223.93				

Data completării 25.04.2024

Anatolie BULGARU

Șef Diviziunea Suport și Elaborare Servicii IoT și ICT

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Cisco Firepower 1120 NGFW Appliance, 1U

#	Part Number	Description	Qty
2.0	FPR1120-NGFW-K9	Cisco Firepower 1120 NGFW Appliance, 1U	1
	included :		
2.1	SF-F1K-TD7.2.5-K9	Cisco Secure Firewall TD 7.2.5 SW for FPR1000 appliances	1
2.2	FPR1000-ASA	Cisco Firepower 1000 Standard ASA License	1
2.3	FPR-LTP-QR-LBL	Cisco Firepower QR Label - Internal Use Only	1
2.4	FPR1K-RM-ACY-KIT	Cisco Firepower 1K Series Accessory Kit for FPR-1120/1140	1
2.5	CAB-ACE	AC Power Cord (Europe), C13, CEE 7, 1.5M	1
2.6	FPR1K-RM-SSD200-	Cisco Firepower 1K Series 200GB for FPR-1120/1140	1
2.7	FPR1K-EXCLUDE-SUBS	Cisco Firepower 1000 Series - Exclude Subscriptions	1
3.0	L-FPR1120T-TMC=	Cisco FPR1120 Threat Defense Threat, Malware and URL License	1
	included :		
3.1	L-FPR1120T-TMC-1Y	Cisco FPR1120 Threat Defense Threat, Malware and URL 1Y Subs	1
4.0	CON-SNT-FRP11209	SNTC-8X5XNBD Cisco Firepower 1120 NGFW Appliance, 1U	1

CloudEngine S5735-L48T4S-A-V2

No.	Part Number	Model	Description	Unit Qty.	Qty.
	CloudEngine S5735-L48T4S-A-V2(C13_Europe)_Site1				
1	S5700 Series Ethernet Switches				16
1.1	Mainframe				
1.1.1	S5735-L Series Mainframe				
	98012033	S5735-L48T4S-A-V2	S5735-L48T4S-A-V2 (48*10/100/1000BASE-T ports, 4*GE SFP ports, AC power)	1	16
1.2	Software				
	88037BNM	L-MLIC-S57L	S57XX-L Series Basic SW,Per Device	1	16
1.3	Technical Support Service				
	88134UGJ-4XF	98012033_88134UGJ-4XF_12	S5735-L48T4S-A-V2 (48*10/100/1000BASE-T ports, 4*GE SFP ports, AC power)_Co-Care Basic S5735-L48T4S-A_12Month(s)	1	16

Huawei CloudEngine S5735-L-V2 Series Switches Datasheet

Huawei CloudEngine S5735-L-V2 series are simplified gigabit Ethernet switches that provide 8/10/16/24/48 x GE downlink ports, 4 x GE or 10GE uplink ports and 2 x 12GE dedicated stack ports

Introduction





CloudEngine S5735-L-V2 series switches are ideal for scenarios such as enterprise campus network access and gigabit to the desktop. Built on next-generation, high-performance hardware and software platform, CloudEngine S5735-L-V2 switches stand out with compelling features such as intelligent stack (iStack), flexible Ethernet networking, and diversified security control. They support multiple Layer 3 routing protocols and provide high performance and service processing capabilities.










Product Overview








Models and Appearances

The following models are available in the CloudEngine S5735-L-V2 series.

Models and appearances of the CloudEngine S5735-L-V2 series

Models and Appearances	Description
 <p>CloudEngine S5735-L8T4S-A-V2</p>	<ul style="list-style-type: none"> 8 x 10/100/1000Base-T ports, 4 x GE SFP ports Built-in AC Forwarding performance: 18 Mpps Switching capacity: 24 Gbps/520 Gbps*
 <p>CloudEngine S5735-L8P4S-A-V2</p>	<ul style="list-style-type: none"> 8 x 10/100/1000Base-T ports, 4 x GE SFP ports Built-in AC PoE+ Forwarding performance: 18 Mpps Switching capacity: 24 Gbps/520 Gbps*
 <p>CloudEngine S5735-L10T4X-A-V2</p>	<ul style="list-style-type: none"> 10 x 10/100/1000Base-T ports, 4 x 10 GE SFP+ ports Built-in AC Forwarding performance: 75 Mpps Switching capacity: 100 Gbps/520 Gbps*
 <p>CloudEngine S5735-L8P2T4X-A-V2</p>	<ul style="list-style-type: none"> 8 x 10/100/1000Base-T ports(PoE+), 2 x 10/100/1000Base-T ports, 4 x 10 GE SFP+ ports Built-in AC

Models and Appearances	Description
	<ul style="list-style-type: none"> Forwarding performance: 75 Mpps Switching capacity: 100 Gbps/520 Gbps*
 <p>CloudEngine S5735-L10T4X-TA-V2**</p>	<ul style="list-style-type: none"> 10 x 10/100/1000Base-T ports, 4 x 10 GE SFP+ ports Built-in AC Forwarding performance: 75 Mpps Switching capacity: 100 Gbps/520 Gbps*
 <p>CloudEngine S5735-L8P2T4X-TA-V2**</p>	<ul style="list-style-type: none"> 8 x 10/100/1000Base-T ports(PoE+), 2 x 10/100/1000Base-T ports, 4 x 10 GE SFP+ ports Built-in AC Forwarding performance: 75 Mpps Switching capacity: 100 Gbps/520 Gbps*
 <p>CloudEngine S5735-L16T4S-A-V2</p>	<ul style="list-style-type: none"> 16 x 10/100/1000Base-T ports, 4 x GE SFP ports Built-in AC Forwarding performance: 30 Mpps Switching capacity: 40 Gbps/520 Gbps*
 <p>CloudEngine S5735-L24T4S-A-V2</p>	<ul style="list-style-type: none"> 24 x 10/100/1000Base-T ports, 4 x GE SFP ports Built-in AC Forwarding performance: 42 Mpps Switching capacity: 56 Gbps/520 Gbps*
 <p>CloudEngine S5735-L24P4S-A-V2</p>	<ul style="list-style-type: none"> 24 x 10/100/1000Base-T ports, 4 x GE SFP ports Built-in AC PoE+ Forwarding performance: 42 Mpps Switching capacity: 56 Gbps/520 Gbps*
 <p>CloudEngine S5735-L24T4XE-A-V2</p>	<ul style="list-style-type: none"> 24 x 10/100/1000Base-T ports, 4 x 10 GE SFP+ ports, 2 stack ports Built-in AC Forwarding performance: 132 Mpps Switching capacity: 176 Gbps/520 Gbps*
 <p>CloudEngine S5735-L24T4XE-D-V2</p>	<ul style="list-style-type: none"> 24 x 10/100/1000Base-T ports, 4 x 10GE SFP+ ports, 2 x 12GE stack ports Built-in DC Forwarding performance: 132 Mpps Switching capacity: 176 Gbps/520 Gbps*
 <p>CloudEngine S5735-L24P4XE-A-V2</p>	<ul style="list-style-type: none"> 24 x 10/100/1000Base-T ports, 4 x 10GE SFP+ ports, 2 x 12GE stack ports Built-in AC PoE+ Forwarding performance: 132 Mpps Switching capacity: 176 Gbps/520 Gbps*
 <p>CloudEngine S5735-L24P4XE-TA-V2**</p>	<ul style="list-style-type: none"> 24 x 10/100/1000Base-T ports, 4 x 10GE SFP+ ports, 2 x12GE stack ports Built-in AC PoE+ Forwarding performance: 132 Mpps Switching capacity: 176 Gbps/520 Gbps*

Models and Appearances	Description
 <p>CloudEngine S5735-L48T4S-A-V2</p>	<ul style="list-style-type: none"> 48 x 10/100/1000Base-T ports, 4 x GE SFP ports Built-in AC Forwarding performance: 78 Mpps Switching capacity: 104 Gbps/520 Gbps*
 <p>CloudEngine S5735-L48LP4S-A-V2</p>	<ul style="list-style-type: none"> 48 x 10/100/1000Base-T ports, 4 x GE SFP ports Built-in AC PoE+ Forwarding performance: 78 Mpps Switching capacity: 104 Gbps/520 Gbps*
 <p>CloudEngine S5735-L48T4XE-A-V2</p>	<ul style="list-style-type: none"> 48 x 10/100/1000Base-T ports, 4 x 10 GE SFP+ ports, 2 x12GE stack ports Built-in AC Forwarding performance: 168 Mpps Switching capacity: 224 Gbps/520 Gbps*
 <p>CloudEngine S5735-L48T4XE-TA-V2**</p>	<ul style="list-style-type: none"> 48 x 10/100/1000Base-T ports, 4 x 10 GE SFP+ ports, 2 x12GE stack ports Built-in AC Forwarding performance: 168 Mpps Switching capacity: 224 Gbps/520 Gbps*
 <p>CloudEngine S5735-L48T4XE-D-V2</p>	<ul style="list-style-type: none"> 48 x 10/100/1000Base-T ports, 4 x 10 GE SFP+ ports, 2 x12GE stack ports Built-in DC Forwarding performance: 168 Mpps Switching capacity: 224 Gbps/520 Gbps*
 <p>CloudEngine S5735-L48P4XE-A-V2</p>	<ul style="list-style-type: none"> 48 x 10/100/1000Base-T ports, 4 x 10 GE SFP+ ports, 2 x 12GE stack ports Built-in AC PoE+ Forwarding performance: 168 Mpps Switching capacity: 224 Gbps/520 Gbps*
 <p>CloudEngine S5735-L48LP4XE-A-V2</p>	<ul style="list-style-type: none"> 48 x 10/100/1000Base-T ports, 4 x 10 GE SFP+ ports, 2 x12GE stack ports Built-in AC PoE+ Forwarding performance: 168 Mpps Switching capacity: 224 Gbps/520 Gbps*


*Note: The value before the slash (/) refers to the device's switching capability, while the value after the slash (/) means the system's switching capability.

**Note: '-T' means Hardware Trust Module(HTM), support hardware root of trust and measurement startup.

Power Supply

Technical specifications of the power supplies applicable to the CloudEngine S5735-L-V2 series

Power Module	Technical Specifications	Applied Switch Model
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Power Module	Technical Specifications	Applied Switch Model
 PAC1000S56-EB	<ul style="list-style-type: none"> • Dimensions (H x W x D): 40 mm x 66 mm x 215 mm • Weight: 1.1 kg (2.43 lb) • Rated input voltage range: <ul style="list-style-type: none"> – 100 V AC to 130 V AC, 50/60 Hz – 200 V AC to 240 V AC, 50/60 Hz – 240 V DC • Maximum input voltage range: <ul style="list-style-type: none"> – 90 V AC to 290 V AC, 45 Hz to 66 Hz – 190 V DC to 290 V DC • Input current: <ul style="list-style-type: none"> – 100 V AC to 130 V AC: 12 A – 200 V AC to 240 V AC: 8 A – 240 V DC: 8 A • Maximum output current: <ul style="list-style-type: none"> – 100 V AC to 130 V AC input: 12 A – 200 V AC to 240 V AC input and 240 V DC input: 8 A – 240V DC: 8 A • Maximum output power: <ul style="list-style-type: none"> – Total power: 900 W (100 V AC to 130 V AC input)/1000 W (200 V AC to 240 V AC input and 240 V DC input) • Hot swap: Supported 	<ul style="list-style-type: none"> • CloudEngine S5735-L48P4XE-A-V2

CloudEngine S5735-L48P4XE-A-V2 is a PoE switch. It has one power module slot, which can have a 1000 W PoE power module installed.

The following table lists its power supply configurations.

Power supply configurations of CloudEngine S5735-L48P4XE-A-V2

Power Module	Available PoE Power	Maximum Number of Ports (Fully Loaded)
1000 W AC PoE (220 V)	846 W	<ul style="list-style-type: none"> • 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 28
1000 W AC PoE (110 V)	756 W	<ul style="list-style-type: none"> • 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 25

Power supply configurations of CloudEngine S5735-L8P4S-A-V2 & S5735-L8P4X-QA-V2 & S5735-L8P2T4X-A-V2

Power Module	Available PoE Power	Maximum Number of Ports (Fully Loaded)
Built-in AC Power Module	125 W	<ul style="list-style-type: none"> • 802.3af (15.4 W per port): 8 • 802.3at (30 W per port): 4

Power supply configurations of CloudEngine S5735-L24P4S-A-V2 & S5735-L24P4XE-A-V2

Power Module	Available PoE Power	Maximum Number of Ports (Fully Loaded)
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Power Module	Available PoE Power	Maximum Number of Ports (Fully Loaded)
Built-in AC Power Module	400 W	<ul style="list-style-type: none"> 802.3af (15.4 W per port): 24 802.3at (30 W per port): 13

Power supply of CloudEngine S5735-L48LP4S-A-V2 & S5735-L48LP4XE-A-V2

Power Module	Available PoE Power	Maximum Number of Ports (Fully Loaded)
Built-in AC Power Module	380 W	<ul style="list-style-type: none"> 802.3af (15.4 W per port): 24 802.3at (30 W per port): 12

Product Features and Highlights

Flexible Ethernet Networking

- In addition to supporting traditional Spanning Tree Protocol (STP), Rapid Spanning Tree Protocol (RSTP), and Multiple Spanning Tree Protocol (MSTP), CloudEngine S5735-L-V2 is also designed with the industry's latest Ethernet Ring Protection Switching (ERPS) technology. ERPS is defined in ITU-T G.8032, and it implements millisecond-level protection switching based on traditional Ethernet MAC and bridging functions.
- CloudEngine S5735-L-V2 supports Smart Link, which implements backup of uplinks. One CloudEngine S5735-L-V2 switch can connect to multiple aggregation switches through multiple links, significantly improving reliability of access devices.

Diversified Security Control

- CloudEngine S5735-L-V2 supports 802.1X authentication, MAC address authentication, and hybrid authentication on a per port basis, and implements dynamic policy delivery (VLAN, QoS, and ACL) to users.
- CloudEngine S5735-L-V2 provides a series of mechanisms to defend against DoS attacks and user-targeted attacks. DoS attacks are targeted at switches and include SYN flood, Land, Smurf, and ICMP flood attacks. User-targeted attacks include bogus DHCP server attacks, IP/MAC address spoofing, DHCP request flood, and changing of the DHCP CHADDR value.
- CloudEngine S5735-L-V2 sets up and maintains a DHCP snooping binding table, and discards the packets that do not match the table entries. The DHCP snooping trusted port feature ensures that users connect only to the authorized DHCP server.
- CloudEngine S5735-L-V2 supports strict ARP learning. This feature prevents ARP spoofing attackers from exhausting ARP entries so that users can connect to the Internet normally.

Easy Operation and Maintenance

- CloudEngine S5735-L-V2 supports Huawei Easy Operation, a solution that provides zero-touch deployment, replacement of faulty devices without additional configuration, USB-based deployment*, batch device configuration, and batch remote upgrade. The Easy Operation solution facilitates device deployment, upgrade, service provisioning, and other management and maintenance operations, and also greatly reduces O&M costs. CloudEngine S5735-L-V2 can be managed and maintained using Simple Network Management Protocol (SNMP) V1, V2, and V3, Command Line Interface (CLI), web-based network management system, or Secure Shell (SSH) V2.0. Additionally, it supports remote network monitoring (RMON), multiple log hosts, port traffic statistics collection, and network quality analysis, paving the way for network optimization and reconstruction.
- CloudEngine S5735-L-V2 supports MUX VLAN, which involves a principal VLAN and multiple subordinate VLANs. Subordinate VLANs are classified into group VLANs and separate VLANs. Ports in the principal VLAN can communicate with ports in subordinate VLANs. Ports in a subordinate group VLAN can communicate with each other, whereas ports in a subordinate separate VLAN cannot communicate with each other. CloudEngine S5735-L-V2 also supports VLAN-Based Spanning Tree (VBST) protocol.

Note: Only those switches with USB ports can USB-based deployment.

iStack

- CloudEngine S5735-L-V2 supports intelligent stack (iStack). This technology combines multiple switches into a logical switch. Member switches in a stack implement redundancy backup to improve device reliability and use inter-device link aggregation to improve link reliability.
- iStack provides high network scalability. You can increase ports, bandwidth, and processing capacity of a stack by simply adding member switches to the stack.
- iStack also simplifies device configuration and management. After a stack is set up, multiple physical switches are virtualized into one logical device. You can log in to any member switch in the stack to manage all the member switches in the stack. CloudEngine S5735-L-V2 support stacking through electrical ports.
- Some CloudEngine S5735-L-V2 supports two 12GE dedicated stack ports, which release uplink ports and do not need to be configured.

PoE Function

- **Perpetual PoE:** When a PoE switch is abnormal Power-off or the software version is upgraded, the power supply to PDs is not interrupted. This capability ensures that PDs are not powered off during the switch reboot.
- **Fast PoE:** PoE switches can supply power to PDs within seconds after they are powered on. This is different from common switches that generally take 1 to 3 minutes to start to supply power to PDs. When a PoE switch reboots due to a power failure, the PoE switch continues to supply power to the PDs immediately after being powered on without waiting until it finishes reboot. This greatly shortens the power failure time of PDs.

Network Slicing Functions

- CloudEngine S5735-L-V2 provides a range of VLAN slicing functions to meet diversified SLA requirements of different services and customers. Service isolation and bandwidth guarantee are implemented based on QoS. Slices can be completely isolated from each other without affecting each other. Traffic is isolated at the physical layer, and network slicing is performed for services on the same physical network. The Network Slicing technology can be used at the access, aggregation, and core layers to meet differentiated SLA requirements of new services on campus networks.

Intelligent O&M

- CloudEngine S5735-L-V2 provides telemetry technology to collect device data in real time and send the data to Huawei campus network analyzer CampusInsight. The CampusInsight analyzes network data based on the intelligent fault identification algorithm, accurately displays the real-time network status, effectively demarcates and locates faults in a timely manner, and identifies network problems that affect user experience, accurately guaranteeing user experience.

Intelligent Upgrade

- CloudEngine S5735-L-V2 supports the intelligent upgrade feature. Specifically, CloudEngine S5735-L-V2 obtains the version upgrade path and downloads the newest version for upgrade from the Huawei Online Upgrade Platform (HOUP). The entire upgrade process is highly automated and achieves one-click upgrade. In addition, preloading the version is supported, which greatly shortens the upgrade time and service interruption time.
- The intelligent upgrade feature greatly simplifies device upgrade operations and makes it possible for the customer to upgrade the version independently. This greatly reduces the customer's maintenance costs. In addition, the upgrade policies on the HOUP platform standardize the upgrade operations, which greatly reduces the risk of upgrade failures.

Cloud Management

- The Huawei cloud management platform allows users to configure, monitor, and inspect switches on the cloud, reducing on-site deployment and O&M manpower costs and decreasing network OPEX. Huawei switches support both cloud management and on-premise management modes. These two management modes can be flexibly switched as required to achieve smooth evolution while maximizing return on investment (ROI).

OPS

- CloudEngine S5735-L-V2 supports Open Programmability System (OPS), an open programmable system based on the Python language. IT administrators can program the O&M functions of a CloudEngine S5735-L-V2 switch through Python scripts to quickly innovate functions and implement intelligent O&M.

Licensing

CloudEngine S5735-L-V2 supports both the traditional feature-based licensing mode and the latest Huawei IDN One Software (N1 mode for short) licensing mode. The N1 mode is ideal for deploying Huawei CloudCampus Solution in the on-premises scenario, as it greatly enhances the customer experiences in purchasing and upgrading software services with simplicity.

Software Package Features in N1 Mode

Switch Functions	N1 Basic Software	N1 Foundation Software Package	N1 Advanced Software Package
Basic network functions: Layer 2 functions, IPv4, IPv6 and others Note: For details, see the Service Features	√	√	√
Basic network automation based on the iMaster NCE-Campus: <ul style="list-style-type: none"> Basic automation: Plug-and-play Basic monitoring: Application visualization NE management: Image and topology management and discovery User access authentication 	×	√	√
Advanced network automation and intelligent O&M: CampusInsight basic functions	×	×	√

Product Specifications

Functions and Features

Item	Description
MAC address table	MAC address learning and aging
	32K MAC entries (MAX)
	Static, dynamic, and blackhole MAC address entries
	Packet filtering based on source MAC addresses
	Interface-based MAC learning limiting
VLAN features	4K VLANs
	Voice VLAN
	MUX VLAN
	VLAN assignment based on MAC addresses, protocols, IP subnets, policies, and interfaces
	VLAN Stacking
Ethernet loop protection	Smart Link tree topology and Smart Link multi-instance, providing millisecond-level protection switchover
	ERPS (G.8032)
	STP (IEEE 802.1d), RSTP (IEEE 802.1w), and MSTP (IEEE 802.1s)
	BPDU protection, root protection, and loop protection

Item	Description
	BPDU tunnel
	LLDP, LLDP-MED
Multicast	PIM DM, PIM SM, PIM SSM
	IGMPv1/v2/v3, IGMPv1/v2/v3 snooping, MLD snooping
	Multicast load balancing among member ports of a trunk
	Interface-based multicast traffic statistics
	Multicast VLAN
IP routing	Static route, RIP, RIPng, OSPF, OSPFv3, VRRP, VRRP6, Routing Policy, Policy-Based Routing
	Up to 4096 FIBv4 entries (MAX)
	Up to 1024 FIBv6 entries (MAX)
IPv6 features	Up to 1024 ND entries (MAX)
	Path MTU (PMTU)
	IPv6 ping, IPv6 tracert, and IPv6 Telnet
Reliability	LACP
	VRRP
	BFD
	LLDP
QoS/ACL	2K rules per IPv4 ACL
	2K rules per IPv6 ACL
	Rate limiting on packets sent and received by an interface
	Packet redirection
	Interface-based traffic policing and two-rate and three-color CAR
	Eight queues on each interface
	DRR, SP, and DRR+SP queue scheduling algorithms
	Re-marking of the 802.1p priority and DSCP priority
	Packet filtering at Layer 2 to Layer 4, filtering out invalid frames based on the source MAC address, destination MAC address, source IP address, destination IP address, TCP/UDP port number, protocol type, and VLAN ID
	Rate limiting in each queue and traffic shaping on interfaces
	Network Slicing (VLAN)
Security	Hierarchical user management and password protection
	DoS attack defense, ARP attack defense, and ICMP attack defense
	Binding of the IP address, MAC address, interface number, and VLAN ID
	Port isolation, port security, and sticky MAC
	Blackhole MAC address entries

Item	Description
	Limit on the number of learned MAC addresses
	IEEE 802.1x authentication and limit on the number of users on an interface
	AAA authentication, RADIUS authentication, HWTACACS authentication, and NAC
	SSH V2.0
	Hypertext Transfer Protocol Secure (HTTPS)
	CPU defense
	Blacklist and whitelist
	DHCP client, DHCP relay, DHCP server, DHCP snooping
	DHCPv6 client, DHCPv6 relay
Management and maintenance	iStack
	Cloud management based on Netconf/Yang
	Virtual Cable Test (VCT)
	Remote configuration and maintenance using Telnet
	SNMPv1/v2/v3
	RMON
	eSight and web-based NMS
	HTTPS
	LLDP/LLDP-MED
	System logs and multi-level alarms
	802.3az EEE
	IFIT
	Port Mirroring
	Registration Center Deployment
Interoperability	Supports VBST (Compatible with PVST/PVST+/RPVST)

Hardware Specifications

Hardware specifications of CloudEngine S5735-L8T4S-A-V2/L8P4S-A-V2/L10T4X-A-V2/L10T4X-TA-V2/ L8P2T4X-A-V2/L8P2T4X-TA-V2 models

Item		CloudEngine S5735-L8T4S-A-V2	CloudEngine S5735-L8P4S-A-V2	CloudEngine S5735-L10T4X-A-V2 CloudEngine S5735-L10T4X-TA-V2	CloudEngine S5735-L8P2T4X-A-V2 CloudEngine S5735-L8P2T4X-TA-V2
Physical specifications	Dimensions (H x W x D)	43.6 mm x 250 mm x 180 mm	43.6 mm x 320 mm x 210 mm	43.6 mm x 250 mm x 180 mm	43.6 mm x 320 mm x 210 mm
	Chassis height	1 U	1 U	1 U	1 U

Item		CloudEngine S5735-L8T4S-A-V2	CloudEngine S5735-L8P4S-A-V2	CloudEngine S5735-L10T4X-A-V2 CloudEngine S5735-L10T4X-TA-V2	CloudEngine S5735-L8P2T4X-A-V2 CloudEngine S5735-L8P2T4X-TA-V2
	Chassis weight (including packaging)	2.22 kg	3.05 kg	2.22kg	3.06kg
Fixed port	GE port	8	8(PoE+)	10	10
	GE SFP pot	4	4	NA	NA
	10GE port	NA	NA	4	4
Management port	Console port (RJ45)	Supported	Supported	Supported	Supported
	USB Port	NA	NA	NA	NA
CPU	Frequency	1.1 GHz	1.1 GHz	1.1 GHz	1.1 GHz
	Core	2	2	2	2
Storage	Memory (DRAM)	2 GB	2 GB	2 GB	2 GB
	Flash memory	1 GB in total. To view the available flash memory size, run the display	1 GB in total. To view the available flash memory size, run the display	1 GB in total. To view the available flash memory size, run the display	1 GB in total. To view the available flash memory size, run the display
Power supply system	Power supply type	Built-in AC	Built-in AC	Built-in AC	Built-in AC
	Rated voltage range	100 V AC to 240 V AC, 50/60 Hz	100 V AC to 240 V AC, 50/60 Hz	100 V AC to 240 V AC, 50/60 Hz	100 V AC to 240 V AC, 50/60 Hz
	Maximum voltage range	<ul style="list-style-type: none"> AC input: 90 V AC to 290 V AC, 45 Hz to 65 Hz 	<ul style="list-style-type: none"> AC input: 90 V AC to 290 V AC, 45 Hz to 65 Hz 	<ul style="list-style-type: none"> AC input: 90 V AC to 290 V AC, 45 Hz to 65 Hz 	<ul style="list-style-type: none"> AC input: 90 V AC to 290 V AC, 45 Hz to 65 Hz
	Maximum input current	0.8 A	3 A	0.8A	3A
	Maximum power consumption of the device	21.52 W	<ul style="list-style-type: none"> 25.09 W (without PD) 166.65 W (with PD, PD power consumption of 125 W) 	29.54 W	<ul style="list-style-type: none"> 32.33 W (without PD) 151.85 W (with PD, PD power consumption of 125 W)
	Power consumption in the case of 30% traffic load ¹	15.95 W	19.99 W	19.24 W	23.33 W
	Power consumption in the case of 100% traffic load ¹	18.71 W	19.99 W	22.63 W	23.77 W
	Power consumption in the case of 0% traffic load ¹	13.02 W	17.19 W	15.1 W	16.75 W

Item		CloudEngine S5735-L8T4S-A-V2	CloudEngine S5735-L8P4S-A-V2	CloudEngine S5735-L10T4X-A-V2 CloudEngine S5735-L10T4X-TA-V2	CloudEngine S5735-L8P2T4X-A-V2 CloudEngine S5735-L8P2T4X-TA-V2
Heat dissipation system	Heat dissipation mode	Air-cooled heat dissipation and intelligent speed adjustment	Air-cooled heat dissipation and intelligent speed adjustment	Air-cooled heat dissipation and intelligent speed adjustment	Air-cooled heat dissipation and intelligent speed adjustment
	Number of fan modules	1	1	1	1
	Airflow	Air intake from left and front, air exhaustion from right	Air intake from left and front, air exhaustion from right	Air intake from left and front, air exhaustion from right	Air intake from left and front, air exhaustion from right
	Maximum heat dissipation of the device (BTU/hour)	81.96	<ul style="list-style-type: none"> Without PDs: 94.14 With PDs: 590.81 	71.82	<ul style="list-style-type: none"> Without PDs: 85.98 With PDs: 523.15
Environment parameters	Long-term operating temperature	<ul style="list-style-type: none"> 0-1800 m altitude: -5°C to +50°C 1800-5000 m altitude: The operating temperature reduces by 1°C every time the altitude increases by 220 m. 	<ul style="list-style-type: none"> 0-1800 m altitude: -5°C to +50°C 1800-5000 m altitude: The operating temperature reduces by 1°C every time the altitude increases by 220 m. 	<ul style="list-style-type: none"> 0-1800 m altitude: -5°C to +50°C 1800-5000 m altitude: The operating temperature reduces by 1°C every time the altitude increases by 220 m. 	<ul style="list-style-type: none"> 0-1800 m altitude: -5°C to +50°C 1800-5000 m altitude: The operating temperature reduces by 1°C every time the altitude increases by 220 m.
	Short-term operating temperature	NA	NA	NA	NA
	Storage temperature	-40°C to +70°C	-40°C to +70°C	-40°C to +70°C	-40°C to +70°C
	Relative humidity	5%-95%(non-condensing)	5%-95%(non-condensing)	5%-95%(non-condensing)	5%-95%(non-condensing)
	Operating altitude	5000 m	5000 m	5000 m	5000 m
	Noise under normal temperature (sound power)	44.5 dB(A)	47 dB(A)	44.5 dB(A)	47 dB(A)
	Noise under high temperature (sound power)	53 dB(A)	57.3 dB(A)	53 dB(A)	57.3 dB(A)
	Noise under normal temperature (sound pressure)	32.5 dB(A)	35 dB(A)	32.5 dB(A)	35 dB(A)
	Surge protection	±7 kV in common	±7 kV in common	±7 kV in common	±7 kV in common

Item		CloudEngine S5735-L8T4S-A-V2	CloudEngine S5735-L8P4S-A-V2	CloudEngine S5735-L10T4X-A-V2 CloudEngine S5735-L10T4X-TA-V2	CloudEngine S5735-L8P2T4X-A-V2 CloudEngine S5735-L8P2T4X-TA-V2
	specification (RJ45 service port)	mode	mode	mode	mode
	Surge protection specification (power port)	<ul style="list-style-type: none"> Differential mode: ± 6 kV Common mode: ± 6 kV 	<ul style="list-style-type: none"> Differential mode: ± 6 kV Common mode: ± 6 kV 	<ul style="list-style-type: none"> Differential mode: ± 6 kV Common mode: ± 6 kV 	<ul style="list-style-type: none"> Differential mode: ± 6 kV Common mode: ± 6 kV
Reliability	MTBF (year)	75.32	69.71	73.83/72.49	68.4/67.25
	MTTR (hour)	2	2	2	2
	Availability	> 0.99999	> 0.99999	> 0.99999	> 0.99999
Certification		<ul style="list-style-type: none"> EMC certification Safety certification Manufacturing certification 	<ul style="list-style-type: none"> EMC certification Safety certification Manufacturing certification 	<ul style="list-style-type: none"> EMC certification Safety certification Manufacturing certification 	<ul style="list-style-type: none"> EMC certification Safety certification Manufacturing certification

Hardware specifications of CloudEngine S5735-L16T4S-A-V2/L24T4S-A-V2/L24P4S-A-V2/ L24T4XE-A-V2 models

Item		CloudEngine S5735-L16T4S-A-V2	CloudEngine S5735-L24T4S-A-V2	CloudEngine S5735-L24P4S-A-V2	CloudEngine S5735-L24T4XE-A-V2
Physical specifications	Dimensions (H x W x D)	43.6 mm x 442 mm x 220 mm	43.6 mm x 442 mm x 220 mm	43.6 mm x 442 mm x 220 mm	43.6 mm x 442 mm x 220 mm
	Chassis height	1 U	1U	1 U	1 U
	Chassis weight (including packaging)	3.34kg	3.44 kg	3.79 kg	3.46 kg
Fixed port	GE port	16	24	24(PoE+)	24
	GE SFP port	4	4	4	NA
	10GE port	NA	NA	NA	4
Management port	Console port (RJ45)	Supported	Supported	Supported	Supported
	USB Port	NA	NA	NA	Supported
CPU	Frequency	1.1 GHz	NA	NA	USB 2.0
	Core	2	1.1 GHz	1.1 GHz	1.1 GHz
Storage	Memory (DRAM)	2 GB	2 GB	2 GB	2 GB
	Flash memory	1 GB in total. To view the available	1 GB in total. To view the available	1 GB in total. To view the available flash	1 GB in total. To view the available

Item		CloudEngine S5735-L16T4S-A-V2	CloudEngine S5735-L24T4S-A-V2	CloudEngine S5735-L24P4S-A-V2	CloudEngine S5735-L24T4XE-A-V2
		flash memory size, run the display	flash memory size, run the display	memory size, run the display	flash memory size, run the display
Power supply system	Power supply type	Built-in AC	Built-in AC	Built-in AC	Built-in AC
	Rated voltage range	100 V AC to 240 V AC, 50/60 Hz	100 V AC to 240 V AC, 50/60 Hz	AC input: 100 V AC to 240 V AC, 50/60 Hz	100 V AC to 240 V AC, 50/60 Hz
	Maximum voltage range	<ul style="list-style-type: none"> AC input: 90 V AC to 290 V AC, 45 Hz to 65 Hz 	<ul style="list-style-type: none"> AC input: 90 V AC to 290 V AC, 45 Hz to 65 Hz 	<ul style="list-style-type: none"> AC input: 90 V AC to 290 V AC, 45 Hz to 65 Hz 	<ul style="list-style-type: none"> AC input: 90 V AC to 264 V AC, 47 Hz to 63 Hz
	Maximum input current	0.8A	0.8A	6A	0.8A
	Maximum power consumption of the device	28.84 W	33.04 W	<ul style="list-style-type: none"> 43.35 W (without PD) 484.91 W(with PD,PD Power consumption of :400W) 	37.03 W
	Power consumption in the case of 30% traffic load ¹	21.17 W	26.37 W	36.32 W	28.48 W
	Power consumption in the case of 100% traffic load ¹	24.35 W	27.05 W	36.79 W	29.36 W
Heat dissipation system	Heat dissipation mode	Air-cooled heat dissipation and intelligent speed adjustment	Air-cooled heat dissipation and intelligent speed adjustment	Air-cooled heat dissipation and intelligent speed adjustment	Air-cooled heat dissipation and intelligent speed adjustment
	Number of fan modules	1	1	2	1
	Airflow	Air intake from left and front, air exhaustion from right	Air intake from left and front, air exhaustion from right	Air intake from left and front, air exhaustion from right	Air intake from left and front, air exhaustion from right
	Maximum heat dissipation of the device (BTU/hour)	103.73	113.96	<ul style="list-style-type: none"> Without PDs: 148.77 With PDs: 1667.15 	120.79
Environment parameters	Long-term operating	<ul style="list-style-type: none"> 0-1800 m altitude: -5°C to 	<ul style="list-style-type: none"> 0-1800 m altitude: -5°C 	<ul style="list-style-type: none"> 0-1800 m altitude: -5°C to +50°C 	<ul style="list-style-type: none"> 0-1800 m altitude: -5°C

Item		CloudEngine S5735-L16T4S-A-V2	CloudEngine S5735-L24T4S-A-V2	CloudEngine S5735-L24P4S-A-V2	CloudEngine S5735-L24T4XE-A-V2
	temperature	+50°C <ul style="list-style-type: none"> 1800-5000 m altitude: The operating temperature reduces by 1°C every time the altitude increases by 220 m. 	to +50°C <ul style="list-style-type: none"> 1800-5000 m altitude: The operating temperature reduces by 1°C every time the altitude increases by 220 m. 	<ul style="list-style-type: none"> 1800-5000 m altitude: The operating temperature reduces by 1°C every time the altitude increases by 220 m. 	to +50°C <ul style="list-style-type: none"> 1800-5000 m altitude: The operating temperature reduces by 1°C every time the altitude increases by 220 m.
	Short-term operating temperature	NA	NA	NA	NA
	Storage temperature	-40°C to +70°C	-40°C to +70°C	-40°C to +70°C	-40°C to +70°C
	Relative humidity	5%-95%(non-condensing)	5%-95%(non-condensing)	5%-95%(non-condensing)	5%-95%(non-condensing)
	Operating altitude	5000 m	5000 m	5000 m	5000 m
	Noise under normal temperature (sound power)	47 dB(A)	47 dB(A)	49.3 dB(A)	47 dB(A)
	Noise under high temperature (sound power)	51 dB(A)	51 dB(A)	63 dB(A)	51 dB(A)
	Noise under normal temperature (sound pressure)	35 dB(A)	35 dB(A)	37.3 dB(A)	35 dB(A)
	Surge protection specification (RJ45 service port)	±7 kV in common mode	±7 kV in common mode	±7 kV in common mode	±7 kV in common mode
	Surge protection specification (power port)	<ul style="list-style-type: none"> Differential mode: ± 6 kV Common mode: ± 6 kV 	<ul style="list-style-type: none"> Differential mode: ± 6 kV Common mode: ± 6 kV 	<ul style="list-style-type: none"> Differential mode: ± 6 kV Common mode: ± 6 kV 	<ul style="list-style-type: none"> Differential mode: ± 6 kV Common mode: ± 6 kV
Reliability	MTBF (year)	72.43	70.75	60.18	68.7
	MTTR (hour)	2	2	2	2
	Availability	> 0.99999	> 0.99999	> 0.99999	> 0.99999
Certification		<ul style="list-style-type: none"> EMC certification Safety certification Manufacturing certification 	<ul style="list-style-type: none"> EMC certification Safety certification Manufacturing 	<ul style="list-style-type: none"> EMC certification Safety certification Manufacturing certification 	<ul style="list-style-type: none"> EMC certification Safety certification Manufacturing

Item	CloudEngine S5735-L16T4S-A-V2	CloudEngine S5735-L24T4S-A-V2	CloudEngine S5735-L24P4S-A-V2	CloudEngine S5735-L24T4XE-A-V2
		certification		certification

Hardware specifications of CloudEngine S5735-L24T4XE-D-V2/-L24P4XE-A-V2/-L24P4XE-TA-V2/-L48T4S-A-V2/-L48LP4S-A-V2 models

Item		CloudEngine S5735-L24T4XE-D-V2	CloudEngine S5735-L24P4XE-A-V2 CloudEngine S5735-L24P4XE-TA-V2	CloudEngine S5735-L48T4S-A-V2	CloudEngine S5735-L48LP4S-A-V2
Physical specifications	Dimensions (H x W x D)	43.6 mm x 442 mm x 220 mm	43.6 mm x 442 mm x 220 mm	43.6 mm x 442 mm x 220 mm	43.6 mm x 442 mm x 220 mm
	Chassis height	1 U	1 U	1 U	1 U
	Chassis weight (including packaging)	3.44 kg	3.81 kg	3.59 kg	4.29 kg
Fixed port	GE Base-T port	24	24(PoE+)	48	48(PoE+)
	GE SFP port	NA	NA	4	4
	10GE port	4	4	NA	NA
	Dedicated 12GE stack port	2	2	NA	NA
Management port	Console port (RJ45)	Supported	Supported	Supported	Supported
	USB port	Supported	Supported	NA	NA
CPU	Frequency	1.1 GHz	1.1 GHz	1.1 GHz	1.1 GHz
	Core	2	2	2	2
Storage	Memory (DRAM)	2 GB	2 GB	2 GB	2 GB
	Flash memory	1 GB in total. To view the available flash memory size, run the display	1 GB in total. To view the available flash memory size, run the display	1 GB in total. To view the available flash memory size, run the display	1 GB in total. To view the available flash memory size, run the display
Power supply system	Power supply type	Built-in DC power	Built-in AC power	Built-in AC power	Built-in AC power
	Rated voltage range	-48V DC~-60V DC	100 V AC to 240 V AC, 50/60 Hz	100 V AC to 240 V AC, 50/60 Hz	100 V AC to 240 V AC, 50/60 Hz
	Maximum voltage range	-38.4V DC~-72V DC	<ul style="list-style-type: none"> AC input: 90 V AC to 290 V AC, 45 Hz to 65 Hz 	<ul style="list-style-type: none"> AC input: 90 V AC to 290 V AC, 45 Hz to 65 Hz 	<ul style="list-style-type: none"> AC input: 90 V AC to 290 V AC, 45 Hz to 65 Hz
	Maximum input current	6 A	6 A	1.6 A	6 A
	Maximum power	36.33 W	<ul style="list-style-type: none"> 55.4 W (without 	43.3 W	<ul style="list-style-type: none"> 62.7 W (without

Item		CloudEngine S5735-L24T4XE-D-V2	CloudEngine S5735-L24P4XE-A-V2 CloudEngine S5735-L24P4XE-TA-V2	CloudEngine S5735-L48T4S-A-V2	CloudEngine S5735-L48LP4S-A-V2
	consumption of the device		PD) • 496.08 W(with PD,PD Power consumption of :400W)		PD) • 462.8 W(with PD,PD Power consumption of :380W)
	Power consumption in the case of 30% traffic load ¹	30.61 W	39.84 W	36.15 W	48.64 W
	Power consumption in the case of 100% traffic load ¹	35.92 W	40.42 W	36.91 W	48.68 W
	Power consumption in the case of 0% traffic load ¹	25.81 W	29.17 W	18.8 W	34.04 W
Heat dissipation system	Heat dissipation mode	Air-cooled heat dissipation and intelligent speed adjustment	Air-cooled heat dissipation and intelligent speed adjustment	Air-cooled heat dissipation and intelligent speed adjustment	Air-cooled heat dissipation and intelligent speed adjustment
	Number of fan modules	1	2	1	2
	Airflow	Air intake from left and front, air exhaustion from right	Air intake from left and front, air exhaustion from right	Air intake from left and front, air exhaustion from right	Air intake from left and front, air exhaustion from right
	Maximum heat dissipation of the device (BTU/hour)	120.79	without PD :186.3 with PD: 1684.21	146.72	without PD :179.07 with PD: 1619.72
Environment parameters	Long-term operating temperature	<ul style="list-style-type: none"> 0-1800 m altitude: -5°C to +45°C 1800-5000 m altitude: The operating temperature reduces by 1°C every time the altitude increases by 220 m. 	<ul style="list-style-type: none"> 0-1800 m altitude: -5°C to +50°C 1800-5000 m altitude: The operating temperature reduces by 1°C every time the altitude increases by 220 m. 	<ul style="list-style-type: none"> 0-1800 m altitude: -5°C to +50°C 1800-5000 m altitude: The operating temperature reduces by 1°C every time the altitude increases by 220 m. 	<ul style="list-style-type: none"> 0-1800 m altitude: -5°C to +50°C 1800-5000 m altitude: The operating temperature reduces by 1°C every time the altitude increases by 220 m.
	Short-term operating temperature	NA	NA	NA	NA
	Storage temperature	-40°C to +70°C	-40°C to +70°C	-40°C to +70°C	-40°C to +70°C
	Relative humidity	5%-95%(non-	5%-95%(non-	5%-95%(non-	5%-95%(non-

Item		CloudEngine S5735-L24T4XE-D-V2	CloudEngine S5735-L24P4XE-A-V2 CloudEngine S5735-L24P4XE-TA-V2	CloudEngine S5735-L48T4S-A-V2	CloudEngine S5735-L48LP4S-A-V2
		condensing)	condensing)	condensing)	condensing)
	Operating altitude	5000 m	5000 m	5000 m	5000 m
	Noise under normal temperature (sound power)	47 dB(A)	49.3 dB(A)	46.6 dB(A)	49.3 dB(A)
	Noise under high temperature (sound power)	51 dB(A)	63 dB(A)	54.3 dB(A)	63 dB(A)
	Noise under normal temperature (sound pressure)	35 dB(A)	37.3 dB(A)	34.6 dB(A)	37.3 dB(A)
	Surge protection specification (RJ45 service port)	±7 kV in common mode	±7 kV in common mode	±7 kV in common mode	±4 kV in common mode
	Surge protection specification (power port)	<ul style="list-style-type: none"> Differential mode: ± 2 kV Common mode: ±4 kV 	<ul style="list-style-type: none"> Differential mode: ± 6 kV Common mode: ± 6 kV 	<ul style="list-style-type: none"> Differential mode: ± 6 kV Common mode: ±6 kV 	<ul style="list-style-type: none"> Differential mode: ± 6 kV Common mode: ±6 kV
Reliability	MTBF (year)	68.7	59.13/58.27	40.61	48.14
	MTTR (hour)	2	2	2	2
	Availability	> 0.99999	> 0.99999	> 0.99999	> 0.99999
Certification		<ul style="list-style-type: none"> EMC certification Safety certification Manufacturing certification 	<ul style="list-style-type: none"> EMC certification Safety certification Manufacturing certification 	<ul style="list-style-type: none"> EMC certification Safety certification Manufacturing certification 	<ul style="list-style-type: none"> EMC certification Safety certification Manufacturing certification

Hardware specifications of CloudEngine S5735-L48T4XE-A-V2/L48T4XE-TA-V2/S5735-L48T4XE-D-V2/L48P4XE-A-V2/L48LP4XE-A-V2 models

Item		CloudEngine S5735-L48T4XE-A-V2 CloudEngine S5735-L48T4XE-TA-V2	CloudEngine S5735-L48T4XE-D-V2	CloudEngine S5735-L48P4XE-A-V2	CloudEngine S5735-L48LP4XE-A-V2
Physical specifications	Dimensions (H x W x D)	43.6 mm x 442 mm x 220 mm	43.6 mm x 442 mm x 220 mm	43.6 mm x 442 mm x 420 mm	43.6 mm x 442 mm x 220 mm
	Chassis height	1 U	1 U	1 U	1 U
	Chassis weight (including	3.62 kg	3.6 kg	8.9 kg	4.32 kg

Item		CloudEngine S5735-L48T4XE-A-V2 CloudEngine S5735-L48T4XE-TA-V2	CloudEngine S5735-L48T4XE-D-V2	CloudEngine S5735-L48P4XE-A-V2	CloudEngine S5735-L48LP4XE-A-V2
	packaging)				
Fixed port	GE Base-T port	48	48	48(PoE+)	48(PoE+)
	GE SFP port	NA	NA	NA	NA
	10GE port	4	4	4	4
	Dedicated 12GE stack port	2	2	2	2
Management port	Console port (RJ45)	Supported	Supported	Supported	Supported
	USB port	Supported	Supported	Supported	Supported
CPU	Frequency	1.1 GHz	1.1 GHz	1.1 GHz	1.1 GHz
	Core	2	2	2	2
Storage	Memory (DRAM)	2 GB	2 GB	2 GB	2 GB
	Flash memory	1 GB in total. To view the available flash memory size, run the display	1 GB in total. To view the available flash memory size, run the display	1 GB in total. To view the available flash memory size, run the display	1 GB in total. To view the available flash memory size, run the display
Power supply system	Power supply type	Built-in AC	Built-in DC	Built-in AC	Built-in AC
	Rated voltage range	100 V AC to 240 V AC, 50/60 Hz	-48V DC~-60V DC	100 V AC to 240 V AC, 50/60 Hz	100 V AC to 240 V AC, 50/60 Hz
	Maximum voltage range	<ul style="list-style-type: none"> AC input: 90 V AC to 290 V AC, 45 Hz to 65 Hz 	-38.4V DC~-72V DC	<ul style="list-style-type: none"> AC input: 90 V AC to 290 V AC, 45 Hz to 65 Hz 	<ul style="list-style-type: none"> AC input: 90 V AC to 290 V AC, 45 Hz to 65 Hz
	Maximum input current	1.6 A	6 A	Depending on power module	6 A
	Maximum power consumption of the device	49.48 W	48.42 W	<ul style="list-style-type: none"> 76.66 W (without PD) 993.74 W (with PD, PD Power consumption of :846 W) 	<ul style="list-style-type: none"> 65.7 W (without PD) 464.8 W (with PD, PD Power consumption of :380W)
	Power consumption in the case of 30% traffic load ¹	41.06 W	40.29 W	54.78 W	49.81 W
	Power consumption in the case of 100% traffic load ¹	43.73 W	41.57 W	55.9 W	50.14 W
	Power consumption in the case of 0% traffic load ¹	19.68 W	23.52 W	36.75 W	32.09 W

Item		CloudEngine S5735-L48T4XE-A-V2 CloudEngine S5735-L48T4XE-TA-V2	CloudEngine S5735-L48T4XE-D-V2	CloudEngine S5735-L48P4XE-A-V2	CloudEngine S5735-L48LP4XE-A-V2
Heat dissipation system	Heat dissipation mode	Air-cooled heat dissipation and intelligent speed adjustment	Air-cooled heat dissipation and intelligent speed adjustment	Air-cooled heat dissipation and intelligent speed adjustment	Air-cooled heat dissipation and intelligent speed adjustment
	Number of fan modules	1	1	2	2
	Airflow	Air intake from left and air exhaust from right	Air intake from left and air exhaust from right	Air intake from left and air exhaust from right	Air intake from left and air exhaust from right
	Maximum heat dissipation of the device (BTU/hour)	170.61	163.78	without PD :286.62 with PD: 3473.52	without PD :189.3 with PD: 1629.96
Environment parameters	Long-term operating temperature	<ul style="list-style-type: none"> 0-1800 m altitude: -5°C to +50°C 1800-5000 m altitude: The operating temperature reduces by 1°C every time the altitude increases by 220 m. 	<ul style="list-style-type: none"> 0-1800 m altitude: -5°C to +50°C 1800-5000 m altitude: The operating temperature reduces by 1°C every time the altitude increases by 220 m. 	<ul style="list-style-type: none"> 0-1800 m altitude: -5°C to +50°C 1800-5000 m altitude: The operating temperature reduces by 1°C every time the altitude increases by 220 m. 	<ul style="list-style-type: none"> 0-1800 m altitude: -5°C to +50°C 1800-5000 m altitude: The operating temperature reduces by 1°C every time the altitude increases by 220 m.
	Short-term operating temperature	NA	NA	NA	NA
	Storage temperature	-40°C to +70°C	-40°C to +70°C	-40°C to +70°C	-40°C to +70°C
	Relative humidity	5%-95%(non-condensing)	5%-95%(non-condensing)	5%-95%(non-condensing)	5%-95%(non-condensing)
	Operating altitude	5000 m	5000 m	5000 m	5000 m
	Noise under normal temperature (sound power)	46.6 dB(A)	46.6 dB(A)	49.3 dB(A)	49.3 dB(A)
	Noise under high temperature (sound power)	54.3 dB(A)	54.3 dB(A)	63 dB(A)	63 dB(A)
	Noise under normal temperature (sound pressure)	34.6 dB(A)	34.6 dB(A)	37.3 dB(A)	37.3 dB(A)
Surge protection specification (RJ45 service port)	±7 kV in common mode	±7 kV in common mode	±6 kV in common mode	±6 kV in common mode	

Item		CloudEngine S5735-L48T4XE-A-V2 CloudEngine S5735-L48T4XE-TA-V2	CloudEngine S5735-L48T4XE-D-V2	CloudEngine S5735-L48P4XE-A-V2	CloudEngine S5735-L48LP4XE-A-V2
	Surge protection specification (power port)	<ul style="list-style-type: none"> Differential mode: ± 6 kV Common mode: ± 6 kV 	<ul style="list-style-type: none"> Differential mode: ± 2 kV Common mode: ± 4 kV 	<ul style="list-style-type: none"> Differential mode: ± 6 kV Common mode: ± 6 kV 	<ul style="list-style-type: none"> Differential mode: ± 6 kV Common mode: ± 6 kV
Reliability	MTBF (year)	40.01/39.62	61.67	46.89	47.31
	MTTR (hour)	2	2	2	2
	Availability	> 0.99999	> 0.99999	> 0.99999	> 0.99999
Certification		<ul style="list-style-type: none"> EMC certification Safety certification Manufacturing certification 	<ul style="list-style-type: none"> EMC certification Safety certification Manufacturing certification 	<ul style="list-style-type: none"> EMC certification Safety certification Manufacturing certification 	<ul style="list-style-type: none"> EMC certification Safety certification Manufacturing certification

NOTE

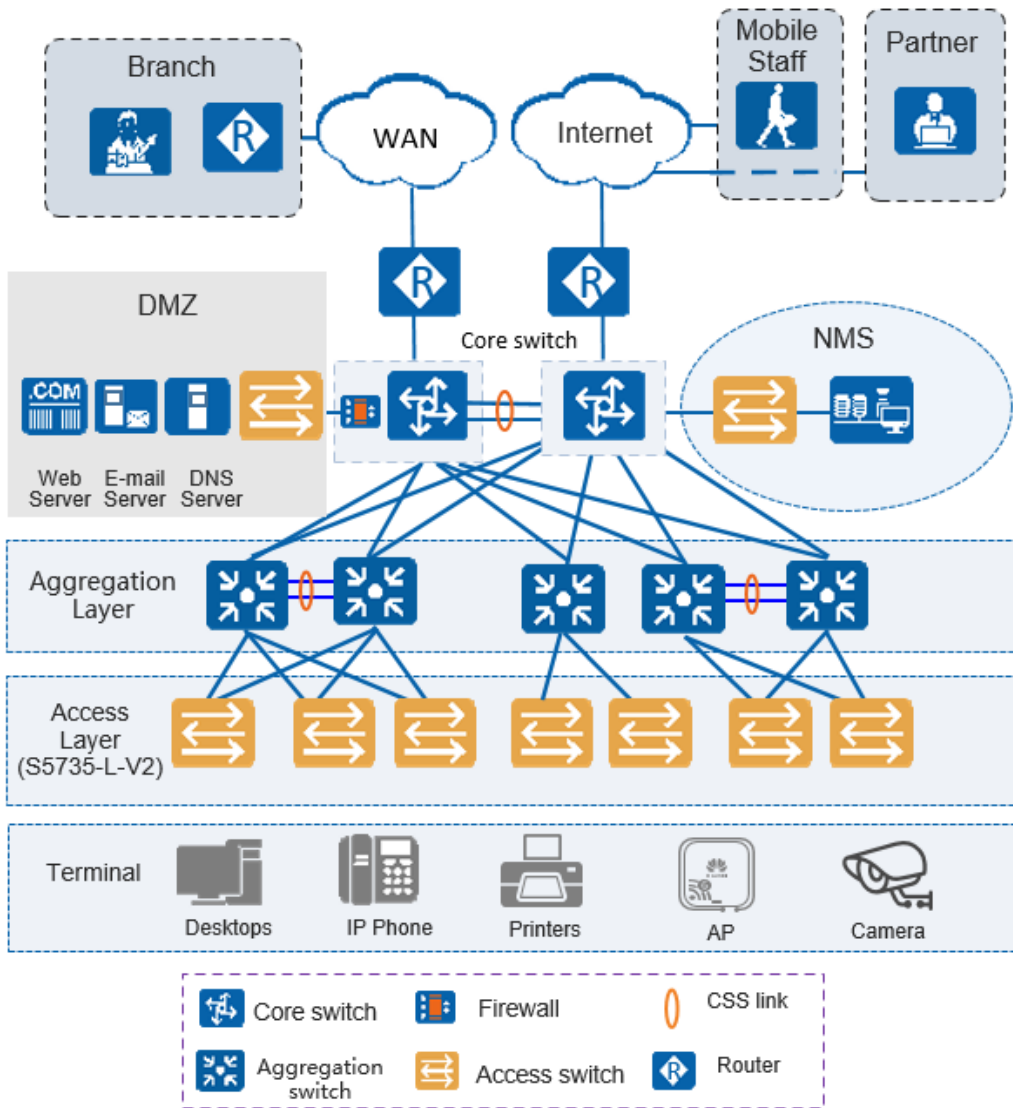
1: The Typical power consumption is calculated under 30% service traffic load conditions according to the ATIS standard. Additionally, the EEE function is enabled and there is no PoE power output.

The Static power consumption is calculated under 0% service traffic load conditions according to the ATIS standard. Additionally, the EEE function is enabled and there is no PoE power output.

Networking and Applications

Medium or Large-Scale Enterprise Campus Network

CloudEngine S5735-L-V2 series switches can be deployed at the access layer of a campus network to build a high-performance and highly reliable enterprise network.



Safety and Regulatory Compliance

Safety and regulatory compliance of the CloudEngine S5735-L series

Certification Category	Description
Safety	<ul style="list-style-type: none"> IEC 60950-1 EN 60950-1/A11/A12 UL 60950-1 CSA C22.2 No 60950-1 AS/NZS 60950.1 CNS 14336-1
Laser safety	<ul style="list-style-type: none"> IEC60825-1 IEC60825-2 EN60825-1 EN60825-2
Electromagnetic	<ul style="list-style-type: none"> CISPR22 Class A

Certification Category	Description
Compatibility (EMC)	<ul style="list-style-type: none"> • CISPR24 • EN55022 Class A • EN55024 • ETSI EN 300 386 Class A • CFR 47 FCC Part 15 Class A • ICES 003 Class A • AS/NZS CISPR22 Class A • VCCI Class A • EN61000-3-2 • EN61000-3-3 • IEC61000-4-2 • ITU-T K 20 • ITU-T K 21 • ITU-T K 44 • CNS13438
Environment	<ul style="list-style-type: none"> • RoHS • REACH • WEEE

NOTE

- EMC: electromagnetic compatibility
- CISPR: International Special Committee on Radio Interference
- EN: European Standard
- ETSI: European Telecommunications Standards Institute
- CFR: Code of Federal Regulations
- FCC: Federal Communication Commission
- IEC: International Electrotechnical Commission
- AS/NZS: Australian/New Zealand Standard
- VCCI: Voluntary Control Council for Interference
- UL: Underwriters Laboratories
- CSA: Canadian Standards Association
- IEEE: Institute of Electrical and Electronics Engineers
- RoHS: restriction of the use of certain hazardous substances
- REACH: Registration Evaluation Authorization and Restriction of Chemicals
- WEEE: Waste Electrical and Electronic Equipment

MIB and Standards Compliance

Supported MIBs

Supported MIBs by the CloudEngine S5735-L-V2 series

Category	MIB
Public MIB	<ul style="list-style-type: none"> • BRIDGE-MIB • DISMAN-NSLOOKUP-MIB

Category	MIB
	<ul style="list-style-type: none"> • DISMAN-PING-MIB • DISMAN-TRACEROUTE-MIB • ENTITY-MIB • EtherLike-MIB • IF-MIB • IP-FORWARD-MIB • IPv6-MIB • LAG-MIB • LLDP-EXT-DOT1-MIB • LLDP-EXT-DOT3-MIB • LLDP-MIB • NOTIFICATION-LOG-MIB • NQA-MIB • P-BRIDGE-MIB • Q-BRIDGE-MIB • RFC1213-MIB • RMON-MIB • SAVI-MIB • SNMP-FRAMEWORK-MIB • SNMP-MPD-MIB • SNMP-NOTIFICATION-MIB • SNMP-TARGET-MIB • SNMP-USER-BASED-SM-MIB • SNMPv2-MIB • SNMP-VIEW-BASED-ACM-MIB • TCP-MIB • UDP-MIB
Huawei-proprietary MIB	<ul style="list-style-type: none"> • HUAWEI-AAA-MIB • HUAWEI-ACL-MIB • HUAWEI-ALARM-MIB • HUAWEI-ALARM-RELIABILITY-MIB • HUAWEI-BASE-TRAP-MIB • HUAWEI-BRAS-RADIUS-MIB • HUAWEI-BRAS-SRVCFG-EAP-MIB • HUAWEI-BRAS-SRVCFG-STATICUSER-MIB • HUAWEI-CBQOS-MIB • HUAWEI-CDP-COMPLIANCE-MIB • HUAWEI-CONFIG-MAN-MIB • HUAWEI-CPU-MIB • HUAWEI-DAD-TRAP-MIB • HUAWEI-DATASYNC-MIB • HUAWEI-DEVICE-MIB • HUAWEI-DHCPR-MIB • HUAWEI-DHCPS-MIB

Category	MIB
	<ul style="list-style-type: none"> • HUAWEI-DHCP-SNOOPING-MIB • HUAWEI-DIE-MIB • HUAWEI-DNS-MIB • HUAWEI-DLDP-MIB • HUAWEI-ERPS-MIB • HUAWEI-ERRORDOWN-MIB • HUAWEI-ENERGYMNGT-MIB • HUAWEI-EASY-OPERATION-MIB • HUAWEI-ENTITY-EXTENT-MIB • HUAWEI-ENTITY-TRAP-MIB • HUAWEI-ETHARP-MIB • HUAWEI-ETHOAM-MIB • HUAWEI-FLASH-MAN-MIB • HUAWEI-FWD-RES-TRAP-MIB • HUAWEI-GARP-APP-MIB • HUAWEI-GTL-MIB • HUAWEI-HGMP-MIB • HUAWEI-HWTACACS-MIB • HUAWEI-IF-EXT-MIB • HUAWEI-INFOCENTER-MIB • HUAWEI-IPPOOL-MIB • HUAWEI-IPV6-MIB • HUAWEI-ISOLATE-MIB • HUAWEI-L2IF-MIB • HUAWEI-L2MAM-MIB • HUAWEI-L2VLAN-MIB • HUAWEI_LDT-MIB • HUAWEI-LLDP-MIB • HUAWEI-MAC-AUTHEN-MIB • HUAWEI-MEMORY-MIB • HUAWEI-MFF-MIB • HUAWEI-MFLP-MIB • HUAWEI-MSTP-MIB • HUAWEI-MULTICAST-MIB • HUAWEI-NTPV3-MIB • HUAWEI-PERFORMANCE-MIB • HUAWEI-PERFMGMT-MIB • HUAWEI-PORT-MIB • HUAWEI-PORTAL-MIB • HUAWEI-QINQ-MIB • HUAWEI-RM-EXT-MIB • HUAWEI-RRPP-MIB • HUAWEI-SECURITY-MIB • HUAWEI-SEP-MIB • HUAWEI-SNMP-EXT-MIB

Category	MIB
	<ul style="list-style-type: none"> • HUAWEI-SSH-MIB • HUAWEI-STACK-MIB • HUAWEI-SWITCH-L2MAM-EXT-MIB • HUAWEI-SWITCH-SRV-TRAP-MIB • HUAWEI-SYS-MAN-MIB • HUAWEI-TCP-MIB • HUAWEI-TFTPC-MIB • HUAWEI-TRNG-MIB • HUAWEI-UNIMNG-MIB • HUAWEI-USA-MIB • HUAWEI-XQOS-MIB

NOTE

For more detailed information of MIBs supported by the CloudEngine S5735-L-V2 series, visit <https://support.huawei.com/enterprise/en/switches/s5700-pid-6691579?category=reference-guides&subcategory=mib-reference>.

Standard Compliance

Standard compliance list of the CloudEngine S5735-L-V2 series

Standard Organization	Standard or Protocol
IETF	<ul style="list-style-type: none"> • RFC 768 User Datagram Protocol (UDP) • RFC 792 Internet Control Message Protocol (ICMP) • RFC 793 Transmission Control Protocol (TCP) • RFC 826 Ethernet Address Resolution Protocol (ARP) • RFC 854 Telnet Protocol Specification • RFC 951 Bootstrap Protocol (BOOTP) • RFC 959 File Transfer Protocol (FTP) • RFC 1058 Routing Information Protocol (RIP) • RFC 1112 Host extensions for IP multicasting • RFC 1157 A Simple Network Management Protocol (SNMP) • RFC 1256 ICMP Router Discovery • RFC 1305 Network Time Protocol Version 3 (NTP) • RFC 1349 Internet Protocol (IP) • RFC 1493 Definitions of Managed Objects for Bridges • RFC 1542 Clarifications and Extensions for the Bootstrap Protocol • RFC 1643 Ethernet Interface MIB • RFC 1757 Remote Network Monitoring (RMON) • RFC 1901 Introduction to Community-based SNMPv2 • RFC 1902-1907 SNMP v2 • RFC 1981 Path MTU Discovery for IP version 6 • RFC 2131 Dynamic Host Configuration Protocol (DHCP) • RFC 2460 Internet Protocol, Version 6 Specification (IPv6) • RFC 2461 Neighbor Discovery for IP Version 6 (IPv6) • RFC 2462 IPv6 Stateless Address Auto configuration • RFC 2463 Internet Control Message Protocol for IPv6 (ICMPv6)

Standard Organization	Standard or Protocol
	<ul style="list-style-type: none"> • RFC 2474 Differentiated Services Field (DS Field) • RFC 2863 The Interfaces Group MIB • RFC 2597 Assured Forwarding PHB Group • RFC 2598 An Expedited Forwarding PHB • RFC 2571 SNMP Management Frameworks • RFC 2865 Remote Authentication Dial In User Service (RADIUS) • RFC 3046 DHCP Option82 • RFC 3513 IP Version 6 Addressing Architecture • RFC 3579 RADIUS Support For EAP • draft-grant-tacacs-02 TACACS+ • RFC 6241 Network Configuration Protocol (NETCONF) • RFC 6020 YANG - A Data Modeling Language for the Network Configuration Protocol (NETCONF)
IEEE	<ul style="list-style-type: none"> • IEEE 802.1D Media Access Control (MAC) Bridges • IEEE 802.1p Traffic Class Expediting and Dynamic Multicast Filtering • IEEE 802.1Q Virtual Bridged Local Area Networks • IEEE 802.1ad Provider Bridges • IEEE 802.2 Logical Link Control • IEEE Std 802.3 CSMA/CD • IEEE Std 802.3ab 1000BASE-T specification • IEEE Std 802.3ad Aggregation of Multiple Link Segments • IEEE Std 802.3ae 10GE WEN/LAN Standard • IEEE Std 802.3x Full Duplex and flow control • IEEE Std 802.3z Gigabit Ethernet Standard • IEEE802.1ax/IEEE802.3ad Link Aggregation • IEEE 802.1ab Link Layer Discovery Protocol • IEEE 802.1D Spanning Tree Protocol • IEEE 802.1w Rapid Spanning Tree Protocol • IEEE 802.1s Multiple Spanning Tree Protocol • IEEE 802.1x Port based network access control protocol • IEEE 802.3af DTE Power via MIDI • IEEE 802.3at DTE Power via the MDI Enhancements • IEEE 802.3az Energy Efficient Ethernet
ITU	<ul style="list-style-type: none"> • ITU SG13 Y.17ethoam • ITU SG13 QoS control Ethernet-Based IP Access • ITU-T Y.1731 ETH OAM performance monitor
MEF	<ul style="list-style-type: none"> • MEF 2 Requirements and Framework for Ethernet Service Protection • MEF 9 Abstract Test Suite for Ethernet Services at the UNI • MEF 11 UNI Requirements and Framework • MEF 15 Requirements for Management of Metro Ethernet Phase 1 Network Elements • MEF 17 Service OAM Framework and Requirements • MEF 20 UNI Type 2 Implementation Agreement • MEF 23 Class of Service Phase 1 Implementation Agreement

Standard Organization	Standard or Protocol
	<ul style="list-style-type: none"> XMODEM/YMODEM Protocol Reference

NOTE

The listed standards and protocols are fully or partially supported by Huawei switches. For details, visit <http://e.huawei.com/en> or contact your local Huawei sales office.

Ordering Information

Model	Product Description
CloudEngine S5735-L8T4S-A-V2	CloudEngine S5735-L8T4S-A-V2 (8*10/100/1000BASE-T ports, 4*GE SFP ports, AC power)
CloudEngine S5735-L8P4S-A-V2	CloudEngine S5735-L8P4S-A-V2 (8*10/100/1000BASE-T ports, 4*GE SFP ports, PoE+, AC power)
CloudEngine S5735-L10T4X-A-V2	CloudEngine S5735-L10T4X-TA-V2 (10*10/100/1000BASE-T ports, 4*10GE SFP+ ports, AC power)
CloudEngine S5735-L10T4X-TA-V2	CloudEngine S5735-L10T4X-TA-V2 (10*10/100/1000BASE-T ports, 4*10GE SFP+ ports, HTM, AC power)
CloudEngine S5735-L8P2T4X-A-V2	CloudEngine S5735-L8P2T4X-A-V2 (8*10/100/1000BASE-T ports(PoE+), 2*10/100/1000BASE-T ports, 4*10GE SFP+ ports, AC power)
CloudEngine S5735-L8P2T4X-TA-V2	CloudEngine S5735-L8P2T4X-TA-V2 (8*10/100/1000BASE-T ports(PoE+), 2*10/100/1000BASE-T ports, 4*10GE SFP+ ports, HTM, AC power)
CloudEngine S5735-L16T4S-A-V2	CloudEngine S5735-L16T4S-A-V2 (16*10/100/1000BASE-T ports, 4*GE SFP ports, AC power)
CloudEngine S5735-L24T4S-A-V2	CloudEngine S5735-L24T4S-A-V2 (24*10/100/1000BASE-T ports, 4*GE SFP ports, AC power)
CloudEngine S5735-L24P4S-A-V2	CloudEngine S5735-L24P4S-A-V2 (24*10/100/1000BASE-T ports, 4*GE SFP ports, PoE+, AC power)
CloudEngine S5735-L24T4XE-A-V2	CloudEngine S5735-L24T4XE-A-V2 (24*10/100/1000BASE-T ports, 4*10GE SFP+ ports, 2*stack ports, AC power)
CloudEngine S5735-L24T4XE-D-V2	CloudEngine S5735-L24T4XE-D-V2 (24*10/100/1000BASE-T ports, 4*10GE SFP+ ports, 2*stack ports, DC power)
CloudEngine S5735-L24P4XE-A-V2	CloudEngine S5735-L24P4XE-A-V2 (24*10/100/1000BASE-T ports, 4*10GE SFP+ ports, 2*stack ports, PoE+, AC power)
CloudEngine S5735-L24P4XE-TA-V2	CloudEngine S5735-L24P4XE-TA-V2 (24*10/100/1000BASE-T ports, 4*10GE SFP+ ports, 2*stack ports, PoE+, HTM, AC power)
CloudEngine S5735-L48T4S-A-V2	CloudEngine S5735-L48T4S-A-V2 (48*10/100/1000BASE-T ports, 4*GE SFP ports, AC power)
CloudEngine S5735-L48LP4S-A-V2	CloudEngine S5735-L48LP4S-A-V2 (48*10/100/1000BASE-T ports, 4*GE SFP ports, PoE+, AC power)
CloudEngine S5735-L48T4XE-TA-V2	CloudEngine S5735-L48T4XE-TA-V2 (48*10/100/1000BASE-T ports, 4*10GE SFP+ ports, 2*stack ports, PoE+, HTM, AC power)
CloudEngine S5735-L48T4XE-D-V2	CloudEngine S5735-L48T4XE-D-V2 (48*10/100/1000BASE-T ports, 4*10GE SFP+ ports, 2*stack ports, PoE+, PoE+, DC power)

Model	Product Description
CloudEngine S5735-L48P4XE-A-V2	CloudEngine S5735-L48P4XE-A-V2 (48*10/100/1000BASE-T ports, 4*10GE SFP+ ports, 2*stack ports, PoE+, AC power)
CloudEngine S5735-L48LP4XE-A-V2	CloudEngine S5735-L48LP4XE-A-V2 (48*10/100/1000BASE-T ports, 4*10GE SFP+ ports, 2*stack ports, PoE+, 1*AC power)
PAC1000S56-EB	1000W AC PoE power module, can be used in CloudEngine S5735-L48P4XE-A-V2
PAC1000S56-DB	1000W AC PoE power module, can be used in CloudEngine S5735-L48P4X-A
N1-S57L-M-Lic	S57XX-L Series Basic SW,Per Device
N1-S57L-M-SnS1Y	S57XX-L Series Basic SW,SnS,Per Device,1Year
N1-S57L-F-Lic	N1-CloudCampus,Foundation,S57XX-L Series,Per Device
N1-S57L-F-SnS	N1-CloudCampus,Foundation,S57XX-L Series,SnS,Per Device
N1-S57L-A-Lic	N1-CloudCampus,Advanced,S57XX-L Series,Per Device
N1-S57L-A-SnS	N1-CloudCampus,Advanced,S57XX-L Series,SnS,Per Device
N1-S57L-FToA-Lic	N1-Upgrade-Foundation to Advanced,S57XX-L,Per Device
N1-S57L-FToA-SnS	N1-Upgrade-Foundation to Advanced,S57XX-L,SnS,Per Device

More Information


For more information about Huawei Campus Switches, visit <http://e.huawei.com> or contact us in the following ways:

- Global service hotline: <http://e.huawei.com/en/service-hotline>
- Logging in to the Huawei Enterprise technical support website: <http://support.huawei.com/enterprise/>
- Sending an email to the customer service mailbox: support_e@huawei.com

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**FORMULARUL STANDARD AL DOCUMENTULUI UNIC
DE ACHIZIȚII EUROPEAN**

1. Documentul unic de achiziții europene, (în continuare, DUAЕ) este o declarație pe proprie răspundere, prin care operatorul economic confirmă îndeplinirea criteriilor de calificare și selecție necesare în cadrul procedurilor de achiziție publică în Republica Moldova.
 2. Formularul este completat, semnat electronic și transmis autorității contractante la depunerea ofertei.
 3. Un DUAЕ depus de către operatorul economic în cadrul unei proceduri de achiziție publică anterioară poate fi reutilizat, cu condiția ca informațiile cuprinse în formular să fie corecte și valabile la data depunerii acestuia.
 4. Ofertantul care prezintă în DUAЕ informații false sau documentele justificative prezentate nu confirmă informația indicată în documentul prezentat este exclus din procedura de achiziție publică și/sau poate răspunde conform legislației.
 5. Formularul DUAЕ este constituit din 7 capitole, și anume:
 - 1) Capitolul I. Informații privind procedura de achiziție publică și autoritatea/entitatea contractantă;
 - 2) Capitolul II. Informații referitoare la operatorul economic;
 - 3) Capitolul III. Motive de excludere din cadrul procedurii de achiziție publică;
 - 4) Capitolul IV. Criteriile de calificare și selecție a operatorilor economici;
 - 5) Capitolul V. Indicații generale pentru criteriile de selecție a operatorilor economici;
 - 6) Capitolul VI. Preselecția candidaților pentru procedura de atribuire a contractului de achiziție publică;
 - 7) Capitolul VII. Declarații finale.
 6. Prezentarea formularului DUAЕ la depunerea ofertei care nu este conform cu cerințele stabilite în Documentația de atribuire duce la respingerea ofertei.
- Compartimentul se completează doar de către autoritatea/entitatea contractantă.*

Cod poziție	Conținutul cerinței	Răspuns
1	2	3
A. Informații despre publicare		
1A.1	Numărul anunțului/invitației publicate în Buletinul achizițiilor publice, și după caz numărul anunțului publicat în Jurnalul Oficial al Uniunii Europene	<u>Achiziționarea Echipamentului pentru asigurarea funcționării rețelei corporative. Nr. ocds-b3wdp1-MD-1713185535581</u>

B. Identitatea autorității/entității contractante		
1B.1	Denumirea autorității/entității contractante	<i>Casa Națională de Asigurări Sociale Republica Moldova</i>
1B.2	Număr unic de identificare (IDNO) a autorității/entității contractante	<u>IDNO</u> <u>1004600030235</u>

Capitolul II. Informații referitoare la operatorul economic

Compartimentul se completează doar de către operatorii economici.

Cod poziție	Conținutul cerințelor	Răspuns
1	2	3
A. Informații privind operatorul economic		
2A.1	Denumirea operatorul economic	Î.M. „Orange Moldova” S.A.
2A.2	Țara	Republica Moldova
2A.3	Cod poștal	MD-2071
2A.4	Oraș/Localitate	mun. Chișinău
2A.5	Adresa juridică	mun. Chișinău, str. Alba Iulia 75
2A.6	Pagina web	<u>www.orange.md</u>
2A.7	Persoana sau persoanele de contact	Vlad Malai
2A.7.1	<i>Telefon</i>	069197093
2A.7.2	<i>Adresa de e-mail</i>	<i>corporate@orange.md</i>
2A.8	Număr unic de identificare (IDNO/IDNP)	1003600106115
2A.9	Numărul cod TVA	7800044
2A.10	Forma organizatorico-juridică a activității de antreprenoriat	Societate pe acțiuni
2A.11	Informația cu privire la numele acționarilor / asociaților/ beneficiarului efectiv	
2A.11.1	Numele acționarilor / asociaților	Orange Participations S.A. MMT-BIS S.A. Corporația Financiară Internațională
2A.11.2	Numele beneficiarului efectiv <i>[beneficiar efectiv – persoană fizică ce deține sau controlează în ultimă instanță o persoană fizică sau juridică ori beneficiar al unei societăți de investiții sau administrator al societății de investiții, ori persoană în al cărei nume se desfășoară o activitate sau se realizează o tranzacție și/sau care deține, direct sau indirect, dreptul de proprietate sau controlul asupra a cel puțin 25% din acțiuni sau din dreptul de vot al persoanei juridice ori asupra bunurilor aflate în administrare</i>	Olga Surugiu Administrator Climoc Liudmila Membru al Consiliului societății Nazaroi Ion Membru al Consiliului societății Deloison Gilles Membru al Consiliului societății Ribas Christine Membru al Consiliului societății Adlouni Faycal

	<i>fiduciară]</i>	Membru al Consiliului societății Luginbühl Christian Urs Membru al Consiliului societății Culpin Jean-Marie Membru al Consiliului societății „Orange” S.A. Societatea-mamă
2A.11.3	Cetățenia beneficiarului efectiv (<i>legătură juridico-politică permanentă a persoanei fizice definite conform poziției 2A.11.2)</i>	Olga Surugiu - R.Moldova Climoc Liudmila - R.Moldova Nazaroi Ion - R.Moldova Deloison Gilles - Franta Ribas Christine - Franta Adlouni Faycal - Franta Luginbühl Christian Urs - Elvetia Culpin Jean-Marie - Franta „Orange” S.A. - Franta
2A.12	Operatorul economic este: <ul style="list-style-type: none"> • întreprindere mică • întreprindere mijlocie • și altele 	<input type="checkbox"/> Da <input checked="" type="checkbox"/> Nu <input type="checkbox"/> Da <input checked="" type="checkbox"/> Nu <input checked="" type="checkbox"/> Da <input type="checkbox"/> Nu
2A.13	În cazul în care achiziția este rezervată: operatorul economic este un atelier protejat sau o întreprindere socială, sau va asigura executarea contractului în contextul programelor de angajare protejată?	<input type="checkbox"/> Da <input checked="" type="checkbox"/> Nu
2A.13.1	<i>Dacă da, care este procentul corespunzător de lucrători cu dizabilități sau defavorizați?</i>	Nu se aplică
2A.13.2	<i>Specificați cărei sau căror categorii de lucrători cu dizabilități sau defavorizați le aparțin angajații în cauză?</i>	Nu se aplică
2A.14	Operatorul economic participă la procedura de achiziții publice împreună cu alți operatori economici?	<input type="checkbox"/> Da <input checked="" type="checkbox"/> Nu
2A.14.1	<i>Dacă Da, precizați rolul operatorului economic în cadrul grupului (lider, responsabil cu îndeplinirea unor sarcini specifice, etc).</i>	Nu se aplică
2A.14.2	<i>Numiți operatorii economici care participă la</i>	Nu se aplică

	<i>procedura respectivă de achiziție publică.</i>	
2A.14.3	<i>Specificați denumirea grupului participant.</i>	Nu se aplică
<i>Notă. Dacă ați răspuns Da la întrebarea 2A.14, asigurați-vă ca operatorii economici menționați să prezinte un formular DUAЕ separat.</i>		
B. Informații privind reprezentanții operatorului economic		
Indicați numele persoanei (persoanelor) împuternicită (împuternicite) să îl reprezinte pe operatorul economic în scopurile prezentei proceduri de achiziție publică.		
2B.1	Nume și prenume	Rodica Platon
2B.2	Poziție/acționând în calitate de..	Sales Suport Expert
2B.3	Țară	Republica Moldova
2B.4	Telefon	069197962
2B.5	Adresa de e-mail	rodica.platon@orange.com
C. Informații privind utilizarea capacităților altor entități		
2C.1	Operatorul economic utilizează capacitățile altor entități pentru a satisface criteriile de selecție prevăzute în capitolul IV, precum și (dacă este cazul) criteriile și regulile menționate în capitolul V de mai jos?	<input type="checkbox"/> Da <input checked="" type="checkbox"/> Nu
<i>Notă. Dacă ați răspuns Da la întrebarea 2C.1, prezentați un formular DUAЕ separat care să cuprindă informațiile solicitate în secțiunile A și B din capitolul respectiv și din capitolul III pentru fiecare dintre entitățile în cauză, completat și semnat în mod corespunzător de entitățile în cauză. Atragem atenția asupra faptului că trebuie incluși, de asemenea, tehnicienii sau organismele tehnice implicate, indiferent dacă fac sau nu parte din întreprinderea operatorului economic, în special cei care răspund de controlul calității și, în cazul contractelor de achiziții publice de lucrări, tehnicienii sau organismele tehnice la care poate face apel operatorul economic în vederea executării lucrărilor. În măsura în care este relevant pentru capacitatea (capacitățile) specifică (specifice) utilizată (utilizate) de operatorul economic, includeți informațiile prevăzute în capitolele IV și V pentru fiecare dintre entitățile în cauză.</i>		
D. Informații privind subcontractanții pe ale căror capacități operatorul economic se bazează		
2D.1	Operatorul economic intenționează să subcontracteze vreo parte din contract cu alți operatori economici?	<input type="checkbox"/> Da <input checked="" type="checkbox"/> Nu
2D.1.1	<i>Dacă Da, enumerați subcontractanții propuși.</i>	Nu se aplică

Capitolul III. Motive de excludere din cadrul procedurii de achiziție publică

Compartimentul se completează de către operatorii economici.

Cod poziție	Conținutul cerințelor	Răspuns
A. Motive referitoare la condamnări prin hotărârea definitivă a unei instanțe judecătorești		
1	2	3
3A.1	Participare la o organizație criminală.	<input type="checkbox"/> Da <input checked="" type="checkbox"/> Nu

	<p>Operatorul economic însuși sau orice persoană care este membru al organismului de administrare, de conducere sau de supraveghere al acestuia sau care are putere de reprezentare, de decizie sau de control în cadrul acestuia a făcut obiectul unei condamnări pronunțate printr-o hotărâre definitivă pentru participare la o organizație criminală, printr-o condamnare pronunțată cu cel mult cinci ani în urmă sau în care continuă să se aplice o perioadă de excludere prevăzută în mod direct în condamnare?</p>	
3A.2	<p>Corupție. Operatorul economic însuși sau orice persoană care este membru al organismului de administrare, de conducere sau de supraveghere al acestuia sau care are putere de reprezentare, de decizie sau de control în cadrul acestuia a făcut obiectul unei condamnări pentru corupție pronunțate printr-o hotărâre definitivă, printr-o condamnare pronunțată cu cel mult cinci ani în urmă sau în care continuă să se aplice o perioadă de excludere prevăzută în mod direct în condamnare?</p>	<input type="checkbox"/> Da <input checked="" type="checkbox"/> Nu
3A.3	<p>Fraude. Operatorul economic însuși sau orice persoană care este membru al organismului de administrare, de conducere sau de supraveghere al acestuia sau care are putere de reprezentare, de decizie sau de control în cadrul acestuia a făcut obiectul unei condamnări pentru fraudă pronunțate printr-o hotărâre definitivă, printr-o condamnare pronunțată cu cel mult cinci ani în urmă sau în care continuă să se aplice o perioadă de excludere prevăzută în mod direct în condamnare?</p>	<input type="checkbox"/> Da <input checked="" type="checkbox"/> Nu
3A.4	<p>Infrațiuni teroriste sau infrațiuni legate de activitățile teroriste. Operatorul economic însuși sau orice persoană care este membru al organismului de administrare, de conducere sau de supraveghere al acestuia sau care are putere de reprezentare, de decizie sau de control în cadrul acestuia a făcut obiectul unei condamnări pentru infrațiuni teroriste sau infrațiuni legate de activități teroriste, pronunțate printr-o hotărâre definitivă, printr-o condamnare pronunțată cu cel mult cinci ani în urmă sau în care continuă să se aplice o perioadă de excludere</p>	<input type="checkbox"/> Da <input checked="" type="checkbox"/> Nu

	prevăzută în mod direct în condamnare?	
3A.5	<p>Spălare de bani sau finanțarea terorismului. Operatorul economic însuși sau orice persoană care este membru al organismului de administrare, de conducere sau de supraveghere al acestuia sau care are putere de reprezentare, de decizie sau de control în cadrul acestuia a făcut obiectul unei condamnări pentru infracțiuni teroriste sau infracțiuni legate de activități teroriste, pronunțate printr-o hotărâre definitivă, printr-o condamnare pronunțată cu cel mult cinci ani în urmă sau în care continuă să se aplice o perioadă de excludere prevăzută în mod direct în condamnare?</p>	<input type="checkbox"/> Da <input checked="" type="checkbox"/> Nu
3A.6	<p>Exploatarea prin muncă a copiilor și alte forme de trafic de persoane. Operatorul economic însuși sau orice persoană care este membru al organismului de administrare, de conducere sau de supraveghere al acestuia sau care are putere de reprezentare, de decizie sau de control în cadrul acestuia a făcut obiectul unei condamnări pronunțate printr-o hotărâre definitivă pentru exploatare prin muncă a copiilor și alte forme de trafic de persoane, printr-o condamnare pronunțată cu cel mult cinci ani în urmă sau în care continuă să se aplice o perioadă de excludere prevăzută în mod direct în condamnare?</p>	<input type="checkbox"/> Da <input checked="" type="checkbox"/> Nu
3A.7	În cazul că răspunsul este Da pentru cel puțin una din întrebările 3A.1 – 3A.6, puteți furniza dovezi care să arate că măsurile luate sunt suficiente pentru a demonstra fiabilitatea, în pofida existenței unui motiv de excludere?	Nu se aplică Se va prezenta Cazier Judiciar la necesitate
3A.7.1	<i>Dacă Da, descrieți aceste măsuri.</i>	Nu se aplică
B. Motive privind plata impozitelor sau/și a contribuțiilor de asigurări sociale		
	<p>Plata impozitelor <i>Existența datoriilor este motiv de excludere</i></p>	
3B.1	Operatorul economic și-a onorat obligațiile cu privire la plata impozitelor, taxelor și contribuțiilor sociale în conformitate cu prevederile legale în vigoare în Republica Moldova sau în țara în care este stabilit?	<input checked="" type="checkbox"/> Da <input type="checkbox"/> Nu
3B.1.1	<i>Dacă Nu, în ce mod a fost stabilită obligația cu privire la plata impozitelor, taxelor și contribuțiilor sociale?</i>	Nu se aplică
3B.1.2	<i>În cazul în care, încălcarea cu referire la</i>	<input type="checkbox"/> Da <input checked="" type="checkbox"/> Nu

	<i>obligațiile privind plata impozitelor, taxelor și contribuțiilor sociale a fost stabilită printr-o hotărâre judecătorească sau administrativă, această decizie este definitivă?</i>	
3B.1.3	<i>În cazul în care, încălcarea cu referire la obligațiile privind plata impozitelor, taxelor și contribuțiilor sociale a fost stabilită printr-o hotărâre judecătorească sau administrativă, precizați data și numărul deciziei.</i>	Nu se aplică
3B.2	Operatorul economic beneficiază, în condițiile legii, de eşalonarea obligațiilor de plată a impozitelor, taxelor și contribuțiilor de asigurări sociale ori de alte facilități în vederea plății acestora, inclusiv a majorărilor de întârziere (penalităților) și/sau a amenzilor? Notă: <i>Se completează doar în cazul în care ați răspuns Nu, la întrebarea din 3B.1.</i>	Nu se aplică
3B.2.1	<i>Dacă Da, operatorul economic este în măsură să furnizeze actul privind eşalonarea obligațiilor de plată a impozitelor, taxelor și contribuțiilor de asigurări sociale ori de alte facilități în vederea plății acestora?</i>	Nu se aplică
3B.3	Operatorul economic este în măsură să furnizeze un certificat cu privire la plata impozitelor sau să furnizeze informații privind onorarea obligațiilor fiscale?	<input checked="" type="checkbox"/> Da <input type="checkbox"/> Nu
3B.4	Informațiile privind lipsa/existența restanțelor față de bugetul public național sunt disponibile gratuit pentru autorități, prin accesarea unei baze de date naționale? Dacă da, specificați informația care ar permite verificarea.	Adresa de internet: https://date.gov.md/open/company-details
Operatorul economic va furniza: <i>Accesarea informației privind îndeplinirea obligațiilor de plată a impozitelor, taxelor și contribuțiilor de asigurări sociale de către candidatul sau ofertantul la procedura de atribuire a contractului de achiziții publice se va efectua nemijlocit de către autoritatea contractantă prin accesarea de către autoritățile contractante de pe platforma de interoperabilitate (MConnect), precum și de pe Portalul guvernamental de date, accesând următorul link: https://date.gov.md/open/company-details.</i>		
C. Includerea în lista de interdicție a operatorilor economici		
3C.1	Operatorul economic este înscris în lista de interdicție a operatorilor economici?	<input type="checkbox"/> Da <input checked="" type="checkbox"/> Nu
3C.1.1	<i>În cazul că răspunsul este Da pentru întrebarea 3C.1, puteți furniza dovezi care să arate că măsurile luate sunt suficiente pentru a demonstra fiabilitatea, în pofida existenței unui motiv de</i>	Nu se aplică

	<i>excludere?</i>	
3C.1.2	<i>Dacă Da, descrieți aceste măsuri.</i>	Nu se aplică
D. Motive legate de insolvabilitate, conflicte de interese sau abateri profesionale		
	Obligațiile aplicabile în domeniul mediului, muncii și asigurărilor sociale	
3D.1	Operatorul economic a încălcat obligațiile în domeniul mediului în ultimii 3 ani?	<input type="checkbox"/> Da <input checked="" type="checkbox"/> Nu
3D.1.1	<i>În cazul că răspunsul este Da pentru întrebarea 3D.1, puteți furniza dovezi care să arate că măsurile luate sunt suficiente pentru a demonstra fiabilitatea, în pofida existenței unui motiv de excludere?</i>	Nu se aplică
3D.1.2	<i>Dacă Da, descrieți aceste măsuri.</i>	Nu se aplică
3D.2	Operatorul economic a încălcat obligațiile în domeniul social în ultimii 3 ani?	<input type="checkbox"/> Da <input checked="" type="checkbox"/> Nu
3D.2.1	<i>În cazul că răspunsul este Da pentru întrebarea 3D.2, puteți furniza dovezi care să arate că măsurile luate sunt suficiente pentru a demonstra fiabilitatea, în pofida existenței unui motiv de excludere?</i>	Nu se aplică
3D.2.2	<i>Dacă Da, descrieți aceste măsuri.</i>	Nu se aplică
3D.3	Operatorul economic a încălcat obligațiile în domeniul muncii în ultimii 3 ani?	<input type="checkbox"/> Da <input checked="" type="checkbox"/> Nu
3D.3.1	<i>În cazul că răspunsul este Da pentru întrebarea 3D.3, puteți furniza dovezi care să arate că măsurile luate sunt suficiente pentru a demonstra fiabilitatea, în pofida existenței unui motiv de excludere?</i>	Nu se aplică
3D.3.2	<i>Dacă Da, descrieți aceste măsuri.</i>	Nu se aplică
	Insolvabilitatea	
3D.4	Operatorul economic este în situație de insolvabilitate sau de lichidare a activității antreprenoriale ca urmare a unei hotărâri judecătorești?	<input type="checkbox"/> Da <input checked="" type="checkbox"/> Nu
3D.4.1	<i>În cazul că răspunsul este Da pentru întrebarea 3D.4, puteți furniza dovezi care să arate că măsurile luate sunt suficiente pentru a demonstra fiabilitatea, în pofida existenței unui motiv de excludere?</i>	Nu se aplică
3D.4.2	<i>Dacă Da, descrieți aceste măsuri.</i>	Nu se aplică
	Active administrate de lichidator	
3D.5	Activele operatorului economic sunt administrate de un lichidator sau de o instanță?	<input type="checkbox"/> Da <input checked="" type="checkbox"/> Nu
3D.5.1	<i>În cazul că răspunsul este Da pentru întrebarea 3D.5, puteți furniza dovezi care să arate că</i>	Nu se aplică

	<i>măsurile luate sunt suficiente pentru a demonstra fiabilitatea, în pofida existenței unui motiv de excludere?</i>	
3D.5.2	<i>Dacă Da, descrieți aceste măsuri.</i>	Nu se aplică
	Activitățile economice sunt suspendate	
3D.6	Activitățile economice ale operatorului economic sunt suspendate?	<input type="checkbox"/> Da <input checked="" type="checkbox"/> Nu
3D.6.1	<i>În cazul că răspunsul este Da pentru întrebarea 3D.6, puteți furniza dovezi care să arate că măsurile luate sunt suficiente pentru a demonstra fiabilitatea, în pofida existenței unui motiv de excludere?</i>	Nu se aplică
3D.6.2	<i>Dacă Da, descrieți aceste măsuri.</i>	Nu se aplică
	Acorduri cu alți operatori economici care vizează denaturarea concurenței	
3D.7	Operatorul economic, în ultimii 3 ani, a încheiat acorduri cu alți operatori economici care au ca obiect denaturarea concurenței, fapt constatat prin decizie a organului abilitat în acest sens?	<input type="checkbox"/> Da <input checked="" type="checkbox"/> Nu
3D.7.1	<i>În cazul că răspunsul este Da pentru întrebarea 3D.7, puteți furniza dovezi care să arate că măsurile luate sunt suficiente pentru a demonstra fiabilitatea, în pofida existenței unui motiv de excludere?</i>	Nu se aplică
3D.7.2	<i>Dacă Da, descrieți aceste măsuri.</i>	Nu se aplică
	Conflict de interese	
3D.8	Operatorul economic se află într-o situație de conflict de interese care nu poate fi remediată?	<input type="checkbox"/> Da <input checked="" type="checkbox"/> Nu
3D.8.1	<i>În cazul că răspunsul este Da pentru întrebarea 3D.8, puteți furniza dovezi care să arate că măsurile luate sunt suficiente pentru a demonstra fiabilitatea, în pofida existenței unui motiv de excludere?</i>	Nu se aplică
3D.8.2	<i>Dacă Da, descrieți aceste măsuri.</i>	Nu se aplică
	Etica profesională	
3D.9	Operatorul economic a fost condamnat, în ultimii 3 ani, prin hotărâre definitivă a unei instanțe judecătorești, pentru o faptă care a adus atingere eticii profesionale sau pentru comiterea unei greșeli în materie profesională?	<input type="checkbox"/> Da <input checked="" type="checkbox"/> Nu
3D.9.1	<i>În cazul că răspunsul este Da pentru întrebarea 3D.9, puteți furniza dovezi care să arate că măsurile luate sunt suficiente pentru a demonstra fiabilitatea, în pofida existenței unui motiv de excludere?</i>	Nu se aplică

3D.9.2	<i>Dacă Da, descrieți aceste măsuri.</i>	Nu se aplică
	Integritatea	
3D.10	Operatorul economic, în ultimii 3 ani, se face vinovat de o abatere profesională, care îi pune la îndoială integritatea?	<input type="checkbox"/> Da <input checked="" type="checkbox"/> Nu
3D.10.1	<i>În cazul că răspunsul este Da pentru întrebarea 3D.10, puteți furniza dovezi care să arate că măsurile luate sunt suficiente pentru a demonstra fiabilitatea, în pofida existenței unui motiv de excludere?</i>	Nu se aplică
3D.10.2	<i>Dacă Da, descrieți aceste măsuri.</i>	Nu se aplică

Capitolul IV. Criteriile de calificare și selecție a operatorilor economici

Compartimentul se completează de către autoritatea/entitatea (coloana nr.2) contractantă și operatorii economici (coloana nr.3).

Cod poziție	Conținutul cerințelor	Răspuns
1	2	3
A. Capacitatea de exercitare a activității profesionale		
4A.1	<p>Operatorul economic este în măsură să furnizeze documentul/documentele prin care se va demonstra înregistrarea acestuia?</p> <p>Operatorul economic va prezenta - Autorizare(MAF) de la producător, actul care atestă dreptul oficial al reprezentantului pe teritoriul R. Moldova de a livra bunuri/lucrări/servicii. - Pentru Lotul 1 va prezenta Certificat al inginerului tehnic din cadrul companiei ofertante pe produsul oferat și inclusiv certificatul Cisco Certified Network Associate Routing and Switching sau echivalentul.</p>	<input checked="" type="checkbox"/> Da <input type="checkbox"/> Nu Operatorul economic va prezenta - Autorizare(MAF) de la producător, actul care atestă dreptul oficial al reprezentantului pe teritoriul R. Moldova de a livra bunuri/lucrări/servicii. - Pentru Lotul 1 va prezenta Certificat al inginerului tehnic din cadrul companiei ofertante pe produsul oferat și inclusiv certificatul Cisco Certified Network Associate Routing and Switching sau echivalentul.
4A.1.1	<i>Dacă Da, indicați actele de înregistrare a activității antreprenoriale și genul (genurile) de activitate determinate de legislație, aferent obiectului procedurii de atribuire a contractului, în baza căreia întreprinderea are dreptul să execute viitorul contract de achiziție publică.</i>	<i>Certificat de înregistrare nr. 0067000 eliberat la 24.07.2007, Extras din registrul de stat al persoanelor juridice nr. 124507 din 15.01.2024. Genul principal</i>

		<i>de activitate: Telecomunicații.</i>
4A.1.2	<i>Actele de înregistrare a activității antreprenoriale, sunt disponibile gratuit pentru autorități dintr-o bază de date națională? Dacă da, specificați informația care ar permite verificarea.</i>	<i>Adresa de internet:</i> Nu exista <i>Autoritatea sau organismul emitent(ă):</i> Nu exista <i>Referința exactă a documentației:</i> Nu exista
4A.2	Activitatea antreprenorială deține o certificare și/sau o autorizare echivalentă aferent obiectului procedurii de atribuire a contractului, în cadrul unui sistem național?	<input checked="" type="checkbox"/> Da <input type="checkbox"/> Nu Autorizare, emitent CISCO Autorizare, emitent Huawei
4A.2.1	<i>Dacă Da, operatorul economic este în măsură să furnizeze documentul/documentele prin care se va demonstra certificarea și/sau autorizarea activității acestuia?</i>	<input checked="" type="checkbox"/> Da <input type="checkbox"/> Nu
4A.2.3	<i>Actele privind certificarea sau autorizarea sunt disponibile gratuit pentru autorități, dintr-o bază de date națională? Dacă da, specificați informația care ar permite verificarea.</i>	<i>Adresa de internet:</i> Nu exista <i>Autoritatea sau organismul emitent(ă):</i> Cisco, Huawei. <i>Referința exactă a documentației:</i> MAF Cisco, MAF Huawei
4A.3	Genurile de activitate, și/sau certificarea, și/sau autorizarea privind activitatea de întreprinzător, acoperă criteriile de selecție impuse de autoritatea/entitatea contractantă în anunțul/invitația de participare?	<input checked="" type="checkbox"/> Da <input type="checkbox"/> Nu
B. Capacitatea economică și financiară		
	Declarații bancare	
4B.1	Operatorul economic este în măsură să furnizeze declarații bancare sau, după caz, dovezi privind asigurarea riscului profesional în conformitate cu cerințele din documentația de atribuire?	<input checked="" type="checkbox"/> Da <input type="checkbox"/> Nu
4B.1.1	<i>Informația menționată la punctul 4B.1 este disponibilă gratuit pentru autorități, dintr-o bază de date națională? Dacă da, specificați informația care ar permite verificarea ei.</i>	<i>Adresa de internet:</i> Nu exista <i>Autoritatea sau organismul emitent(ă):</i> Nu exista

		<i>Referința exactă a documentației:</i> Nu exista
	Cifra de afaceri anuală (volumul vânzărilor)	
4B.2	Operatorul economic este în măsură să demonstreze o cifră de afaceri anuală, după cum urmează: Valoare _____ Perioada _____ <i>Notă. Se completează de către autoritatea contractantă valoarea și perioada</i>	<input checked="" type="checkbox"/> Da <input type="checkbox"/> Nu
4B.2.1	<i>Specificați care este cifra de afaceri anuală, conform datelor din raportul financiar.</i>	3,161,577,176.00 MDL, 2022
	Cifra de afaceri medie anuală	
4B.3	Operatorul economic este în măsură să demonstreze o cifră medie anuală de afaceri, după cum urmează: Valoare _____ Perioada _____ <i>Notă. Se completează de către autoritatea contractantă valoarea și perioada</i>	<input checked="" type="checkbox"/> Da <input type="checkbox"/> Nu
4B.3.1	<i>Specificați cifra de afaceri, conform datelor din raportul financiar.</i>	3,161,577,176.00 MDL, 2022
		3,050,691,749.00 MDL, 2021
		2,913,682,056.00 MDL, 2020
		3,041,983,660.33 MDL Medie
	Raport financiar	
4B.4	Operatorul economic este în măsură să furnizeze raportul financiar înregistrat, extrase din raportul financiar?	<input type="checkbox"/> Da Nu
4B.5	Informațiile privind situația economică și financiară sunt disponibile gratuit pentru autorități, dintr-o bază de date națională? Dacă da, specificați informația care ar permite verificarea.	<input checked="" type="checkbox"/> Da <input type="checkbox"/> Nu
		Adresa de internet: Nu exista Autoritatea sau organismul emitent(ă): <i>aprobat de Biroul National de Statistica</i>
C. Capacitatea tehnică și/sau profesională		
4C.1	Operatorul economic este în măsură să furnizeze documentele solicitate de către autoritatea/entitatea	<input checked="" type="checkbox"/> Da <input type="checkbox"/> Nu

	contractantă în anunțul de participare, care demonstrează capacitatea tehnică și/sau profesională pentru executarea viitorului contract.	
4C.1.1	<i>Informațiile privind capacitatea tehnică și/sau profesională sunt disponibile gratuit pentru autorități, dintr-o bază de date națională? Dacă da, specificați informația care ar permite verificarea.</i>	<i>Adresa de internet:</i> <i>Nu exista</i>
		<i>Autoritatea sau organismul emitent(ă):</i> <i>Î.M. „Orange Moldova” S.A.</i>
		<i>Referința exactă a documentației:</i> MAF Cisco, MAF Huawei. CV-urile persoanelor implicate în proiect. CertIFICATELE persoanelor implicate în proiect.
	Operatorul economic va furniza:	<input checked="" type="checkbox"/> Da <input type="checkbox"/> Nu
	Instalații tehnice și măsuri de asigurare a calității	
4C.2	Operatorul economic este în măsură să furnizeze detalii referitoare la tehnicieni sau organisme tehnice, specificate în anunțul de participare/documentația de atribuire, pe care autoritatea/entitatea contractantă le poate solicita, în special cele responsabile de controlul calității în legătură cu acest exercițiu de achiziție publică?	<input checked="" type="checkbox"/> Da <input type="checkbox"/> Nu
4C.3	Operatorul economic este în măsură să furnizeze o informație cu privire la sistemele de management și de trasabilitate utilizate în cadrul lanțului de aprovizionare?	<input checked="" type="checkbox"/> Da <input type="checkbox"/> Nu
4C.3.1	<i>Informațiile sunt disponibile gratuit pentru autorități, dintr-o bază de date națională? Dacă da, specificați informația care ar permite verificarea.</i>	<i>Adresa de internet:</i> <i>Nu exista</i>
		<i>Autoritatea sau organismul emitent(ă):</i> <i>Î.M. „Orange Moldova” S.A.</i>
		<i>Referința exactă a documentației:</i> <i>Declarație</i>
	Operatorul economic va furniza acte ce confirmă:	<input checked="" type="checkbox"/> Da <input type="checkbox"/> Nu
	Utilaje, instalații și echipament tehnic	

4C.4	Operatorul economic dispune de utilaje și echipament necesar pentru îndeplinirea corespunzătoare a contractului de achiziție publică?	<input checked="" type="checkbox"/> Da <input type="checkbox"/> Nu
4C.5	Operatorul economic este în măsură să furnizeze o informație cu privire la dotările specifice, utilajul și echipamentul necesar pentru îndeplinirea contractului, conform cerințelor stabilite în anunțul de participare și documentația de atribuire?	<input checked="" type="checkbox"/> Da <input type="checkbox"/> Nu
	Pregătirea profesională și calificarea personalului	
4C.6	Operatorul economic are în cadrul întreprinderii personal calificat conform cerințelor stabilite în anunțul de participare sau în documentația de atribuire?	<input checked="" type="checkbox"/> Da <input type="checkbox"/> Nu
4C.7	Operatorul economic este în măsură să furnizeze o informație privind personalul de specialitate propus pentru executarea contractului, conform cerințelor stabilite în anunțul de participare și documentația de atribuire?	<input checked="" type="checkbox"/> Da <input type="checkbox"/> Nu
4C.8	Indicați efectivele medii anuale de personal angajat din ultimii trei ani de activitate.	Anul 2021
		Angajați 865
		Anul 2022
		Angajați 679
		Anul 2023
	Numărul membrilor personalului de conducere	
4C.9	Indicați numărul membrilor personalului de conducere ale operatorului economic pe parcursul ultimilor trei ani.	Anul 2021
		Persoane 9
		Anul 2022
		Persoane 9
		Anul 2023
		Persoane 9
	Operatorul economic va furniza:	<input checked="" type="checkbox"/> Da <input type="checkbox"/> Nu
	Mostre, descrieri, fotografii	
4C.10	Operatorul economic este în măsură să furnizeze eșantioane (mostre), descrieri și/sau fotografii ale produselor/serviciilor care urmează să fie furnizate/prestate, conform cerințelor stabilite în documentația de atribuire?	<input checked="" type="checkbox"/> Da <input type="checkbox"/> Nu
	Pentru contractele de achiziție publică de lucrări	
4C.11	În perioada de referință, operatorul economic a îndeplinit lucrări specifice sau similare obiectului de achiziție indicat în anunțul de participare și în documentația de atribuire?	<input checked="" type="checkbox"/> Da <input type="checkbox"/> Nu

4C.11.1	<i>Dacă Da, enumerați-le specificând descrierea lucrărilor, valoarea lor, data de începere, data procesului verbal de recepție la terminarea lucrărilor, beneficiarul și altă informație relevantă.</i>	Nu se aplică
	Pentru contractele de achiziție publică de bunuri	
4C.12	În perioada de referință, operatorul economic a efectuat livrări specifice obiectului de achiziție indicat în anunțul de participare și în documentația de atribuire?	<input checked="" type="checkbox"/> Da <input type="checkbox"/> Nu
4C.12.1	<i>Dacă Da, enumerați-le specificând descrierea livrărilor, valoarea lor, data de începere, data furnizării, beneficiarul și altă informație relevantă.</i>	<i>Referința exactă a documentației:</i> MAF Cisco, MAF Huawei. CV-urile persoanelor implicate în proiect. CertIFICATELE persoanelor implicate în proiect. Contracte similare: B.C. Victoriabank S.A., Contract Nr. CC-5577. Echipament IT, 2021 Valoarea totală a bunurilor 360,000.00 USD inclusiv TVA. BC "MAIB" S.A., Contract Nr. F/N. Echipament IT, 2022. Valoarea totală a bunurilor 130,000.00 EUR inclusiv TVA. Noction S.R.L., Contract Nr. CC-5989. Echipament IT, 2022 Valoarea totală a bunurilor 20000.00 USD inclusiv TVA. IP STISC, Contract Nr. 102, Echipament IT, 2022. Valoarea totală a bunurilor 5745000.00 MDL inclusiv TVA. IT-Lab Grup SRL Contract Nr. 6174. Echipament IT, 2022. Valoarea totală a bunurilor 6,300.00

		<p>EUR inclusiv TVA. Health Forever International SRL Contract Nr. 8171. Echipament IT, 2022/2023. Valoarea totală a bunurilor 27,000.00 EUR inclusiv TVA. ICT Solutii SRL Contract Nr. 9988/1. Echipament IT, 2022/2023. Valoarea totală a bunurilor 300,000.00 EUR inclusiv TVA.</p>
	Pentru contractele de achiziție publică de servicii	
4C.13	În perioada de referință, operatorul economic a prestat servicii similare cu obiectul de achiziție indicat în anunțul de participare și în documentația de atribuire?	<input checked="" type="checkbox"/> Da <input type="checkbox"/> Nu
4C.13.1	<i>Dacă Da, enumerați-le specificând descrierea serviciilor, valoarea lor, durata de execuție, data începerii, beneficiarul și altă informație relevantă.</i>	<p><i>Referința exactă a documentației:</i> MAF Cisco, MAF Huawei. CV-urile persoanelor implicate în proiect. CertIFICATELE persoanelor implicate în proiect. Contracte similare: B.C. Victoriabank S.A., Contract Nr. CC-5577. Echipament IT, 2021 Valoarea totală a bunurilor 360,000.00 USD inclusiv TVA. IP STISC, Contract Nr. 102, Echipament IT, 2022. Valoarea totală a bunurilor 5745000.00 MDL inclusiv TVA. Health Forever International SRL Contract Nr. 8171. Echipament IT, 2022/2023. Valoarea totală a bunurilor 27,000.00 EUR</p>

		inclusiv TVA.
4C.14	În cazul că răspunsul este Da pentru una din întrebările 4C.11 – 4C.13, puteți furniza dovezi prin care se va demonstra îndeplinirea lucrărilor, livrarea bunurilor, prestarea serviciilor similare conform cerințelor documentației de atribuire?	<input checked="" type="checkbox"/> Da <input type="checkbox"/> Nu
D. Standarde de asigurare a calității		
4D.1	Operatorul economic este în măsură să furnizeze certificate emise de organisme independente prin care se atestă faptul că operatorul economic respectă standardele de asigurare a calității conform cerințelor stabilite în anunțul de participare și în documentația atribuire?	<input checked="" type="checkbox"/> Da <input type="checkbox"/> Nu
4D.2	Informațiile privind standardele de asigurare a calității, sunt disponibile gratuit pentru autorități, dintr-o bază de date națională? Dacă da, specificați informația care ar permite verificarea.	Adresa de internet: https://www.orange.md/ro/util/iso Autoritatea sau organismul emitent(ă): “SCAR CERT” SRL Referința exactă a documentației: Certificate ISO 9001 ISO 27001
<p>Operatorul economic va furniza:</p> <p><i>-- Declarație pe propria răspundere privind -Garanția echipamentelor livrate cade în răspunderea vânzătorului pe toată perioada de garanție și constituie 12 luni.</i></p> <p><i>- Bunurile livrate nu sunt mai vechi de un an de la data livrării și să fie noi (non refurbished)</i></p>		
E. Standarde de protecție a mediului		
4E.1	Operatorul economic este în măsură să furnizeze certificate emise de organisme independente prin care se atestă faptul că operatorul economic respectă standardele de protecție a mediului, conform cerințelor stabilite în anunțul de participare și în documentația de atribuire?	Adresa de internet: https://siamd.gov.md/portal/deee.html https://www.moldcontrol.md/ro/membri
4E.2	Informațiile privind standardele de protecția mediului, sunt disponibile gratuit pentru autorități, dintr-o bază de date națională? Dacă da, specificați informația care ar permite verificarea.	Autoritatea sau organismul emitent(ă): “SIAMD” Referința exactă a documentației: Registrul Sistemul informațional automatizat Managementul deșeurilor / Moldcontrol. nr. MD2022-5-EEE-001

		Nr. MD2022-2-BA-002 Adresa de internet: https://siamd.gov.md/portal/deee.html https://www.moldcontrol.md/ro/membri
Operatorul economic va furniza: <i>Declarație pe propria răspundere privind numărul de înregistrare a producătorului de echipamente electrice și electronice în Lista producătorilor de produse supuse reglementărilor de responsabilitate extinsă a producătorilor (HG 212/2018) - confirmată prin semnătura electronică a Participantului</i>		
F. Permitearea controalelor		
4F.1	Operatorul economic permite efectuarea verificărilor de către autoritatea/entitatea contractantă referitor la capacitățile economice și financiare, de producție sau tehnice privind executarea viitorului contract de achiziție publică?	<input checked="" type="checkbox"/> Da <input type="checkbox"/> Nu

Capitolul V. Indicații generale pentru criteriile de calificare și selecție

Compartimentul se completează de către autoritatea/entitatea contractantă (coloana nr.2) și operatorii economici (coloana nr.3).

Cod poziție	Conținutul cerințelor	Răspuns
1	2	3
A. Îndeplinirea tuturor criteriilor de selecție impuse		
5A.1	Operatorul economic este în măsură să furnizeze în Sistemul informațional automatizat „Registrul de stat al achizițiilor publice” sau prin mijloace electronice, sau dacă e cazul, pe suport de hârtie autorității contractante: formularele, certificatele, avizele și alte documente indicate de către autoritatea/entitatea contractantă în anunțul de participare și în documentația de atribuire? <i>Termen 3 zile de la solicitare.</i> <i>Notă. Numărul de zile se indică de către autoritatea contractantă ținând cont de cantitatea și caracterul documentelor solicitate.</i>	<input checked="" type="checkbox"/> Da <input type="checkbox"/> Nu
5A.2	Informațiile care să îi permită autorității/entității contractante să obțină documentele indicate în anunțul de participare și în documentația de atribuire, sunt disponibile gratuit și direct prin accesarea unei baze de date naționale în orice stat? Dacă da, specificați informația care ar permite verificarea.	Adresa de internet: Nu exista Autoritatea sau organismul emitent(ă): Î.M. „Orange Moldova” S.A. Referința exactă a documentației: Acte/clarificări la

		solicitare
--	--	------------

Capitolul VI. Preselecția candidaților pentru procedura de atribuire a contractului de achiziție publică

Compartimentul se solicită de către autoritatea contractantă doar în cadrul procedurilor de achiziție publică: licitația restrânsă, negociere, dialog competitiv și parteneriatul pentru inovare.

Cod poziție	Conținutul cerințelor	Răspuns
1	2	3
A. Îndeplinirea tuturor criteriilor de selecție impuse		
6A.1	Operatorul economic/candidatul îndeplinește criteriile de selecție stabilite de către autoritatea contractantă în anunțul de participare și în documentația de atribuire.	<input checked="" type="checkbox"/> Da <input type="checkbox"/> Nu
6A.2	Operatorul economic/candidatul dispune și este în măsură să furnizeze în Sistemul informațional automatizat „Registrul de stat al achizițiilor publice” sau prin mijloace electronice, sau dacă e cazul, pe suport de hârtie autorității contractante certificate sau alte forme de documente justificative, după cum este cerut în anunțul de participare și în documentația de atribuire.	<input checked="" type="checkbox"/> Da <input type="checkbox"/> Nu

Capitolul VII. Declarații finale

Operatorul economic declară că informațiile prezentate în capitolele II – V (după caz II-VI) sunt exacte și corect furnizate, cunoscând pe deplin consecințele cazurilor grave de declarații false.

Operatorul economic declară în mod oficial, că poate să furnizeze la solicitarea autorității/entității contractante fără întârziere, certificatele și documentele justificative solicitate, cu excepția cazului în care autoritatea/entitatea contractantă are posibilitatea de a obține documentele justificative în cauză direct prin accesarea unei baze de date relevante, care este disponibilă gratuit, cu condiția că operatorul economic să fi furnizat informațiile necesare (adresa de internet, autoritatea sau organismul emitent(ă), referința exactă a documentației) care să îi permită autorității contractante sau entității contractante să facă acest lucru și se consimte accesul la informațiile menționate, în cazul în care acest lucru este necesar.

Operatorul economic declară în mod oficial că este de acord ca **Casa Națională de Asigurări Sociale**, astfel cum este descrisă în capitolul I secțiunea A să obțină acces la documentele justificative privind informațiile pe care le-a furnizat în acest DUAE în scopul desfășurării procedurii de achiziție [procedurii de achiziție, număr unic de identificare și referința de publicare în Jurnalul Oficial al Uniunii Europene (numărul de referință), dacă este cazul].

Data completării 25.04.2024

Cu stimă,

Anatolie BULGARU

Şef Diviziunea Suport și Elaborare Servicii IoT și ICT
Î.M. „Orange Moldova” S.A.

Acest act este semnat prin aplicarea **Semnăturii Mobile**

Verificarea semnăturii - <https://msign.gov.md/#/verify/upload>



I.M. Orange Moldova S.A.
IDNO 1003600106115
Str. Alba Iulia 75, MD-2071 Chisinau
Republica Moldova
Capital social 179499609 lei
Administrator Olga Surugiu
www.orange.md

DECLARAȚIE

Către: Casa Națională de Asigurări Sociale, Republica Moldova, mun.Chișinău,
Gheorghe Tudor nr.3.

Prin prezenta declaratie Orange Moldova S.A. confirma faptul că echipamentele oferite in cadrul Cererii ofertelor de prețuri (bunuri) Nr. ocds-b3wdp1-MD-1713185535581 dispun de un termen de garantie de 12 luni, care cade în răspunderea Orange Moldova S.A. pe toată perioada de garanție și începe din momentul livrării Mărfii și a semnării actelor de predare-primire.

Bunurile oferite inclusiv componentele acestora sunt noi si nu fac parte din categoria produselor refurbished.

Anul producerii al Bunurilor oferite va fi nu mai vechi de 1 an la data livrării.

Data completării 25.04.2024

Cu stimă,

Anatolie BULGARU

Șef Diviziunea Suport și Elaborare Servicii IoT și ICT
Î.M. „Orange Moldova” S.A.

Acest act este semnat prin aplicarea **Semnăturii Mobile**
Verificarea semnăturii - <https://msign.gov.md/#/verify/upload>



NSE CERTIFIED

This certifies that
Adrian Constantin Fainis
has successfully completed
NSE 4 Network Security Professional

DATE: April 10, 2019

CERTIFICATE NUMBER: pfHWjZc1YG

KEN XIE
CHIEF EXECUTIVE OFFICER
FORTINET

MICHAEL XIE
CHIEF TECHNOLOGY OFFICER
FORTINET

FORTINET
NSE Certification
Program

This acknowledges that
Adrian Constantin Fainis
successfully completed the exam
NSE 5 FortiAnalyzer



Rob Rashotte

Vice President, Global Training &
Technical Field Enablement at Fortinet

Date: April 9, 2019

This acknowledges that
Adrian Constantin Fainis
successfully completed the exam
NSE 5 FortiManager



Rob Rashotte

Vice President, Global Training &
Technical Field Enablement at Fortinet

Date: January 20, 2020

This acknowledges that
Adrian Constantin Fainis
successfully completed the exam
NSE 6 FortiAuthenticator

A handwritten signature in black ink, consisting of a large, stylized 'R' and 'A' intertwined, enclosed within a large, hand-drawn oval.

Rob Rashotte

Vice President, Global Training &
Technical Field Enablement at Fortinet

Date: July 20, 2021

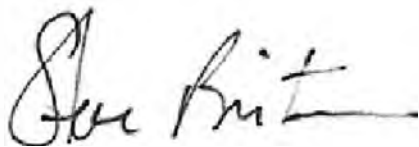
2021

Course of Achievement

Presented to Anatolie Bulgaru (I.M. ORANGE MOLDOVA S.A.)

In recognition of successfully completing the training program for Lenovo ThinkSystem storage products, which included support, troubleshooting and start-up courses

Anatolie Bulgaru (I.M. ORANGE MOLDOVA S.A.) thereof is awarded this certificate on August 02, 2021



Steve Britner

Director, Lenovo Training Solutions



Lenovo™

This is to certify that

ANATOLIE BULGARU

Anatolie BULGARU

Has achieved the

**ITIL® Foundation Certificate in
IT Service Management**

Effective from **29 Sep 2020**

Expiry date **N/A**

Certificate number **GR671186947AB**

Candidate number **9980012845615647**



Mark Basham, CEO, AXELOS



Panoraia Theleriti, Certification Qualifier, PeopleCert

ITIL 4 Edition

Printed on 30 September 2020

This certificate remains the property of the issuing Examination Institute and shall be returned immediately upon request.

Kaspersky Certification



Kaspersky hereby confirms that

Andrei Lunga

has successfully completed all the requirements
to acquire the certificate:

**Certified Professional: Kaspersky Endpoint Security
and Management (002.11.6)**

Issued on: **28 October 2021**
Certificate number: **002.11.6-AAS-0418035**

Eugene Kaspersky,
Chief Executive Officer

A handwritten signature in black ink, appearing to read "Eugene Kaspersky".

Kaspersky Certification



Kaspersky hereby confirms that

Andrei Lunga

has successfully completed all the requirements
to acquire the certificate:

**Sales Specialist: Kaspersky Endpoint Security for
Business (S02.11.1)**

Issued on: **13 October 2021**
Certificate number: **S02.11.1-AAS-0417934**

Eugene Kaspersky,
Chief Executive Officer

A handwritten signature in black ink, appearing to read "Eugene Kaspersky".

Microsoft Certified

Azure Fundamentals

ANDREI LUNGA

Has successfully completed the requirements to be recognized as a Microsoft Certified: Azure Fundamentals.

Date of achievement: July 30, 2020



A handwritten signature in black ink, appearing to read "N. Satya Nadella".

Satya Nadella
Chief Executive Officer



Microsoft 365 Certified

Fundamentals

ANDREI LUNGA

Has successfully completed the requirements to be recognized as a Microsoft 365 Certified: Fundamentals.

Date of achievement: June 24, 2020



A handwritten signature in black ink, appearing to read "N. Satya Nadella".

Satya Nadella
Chief Executive Officer



ECSI European Cyber Security Initiative

THE FOLLOWING DOCUMENT IS ISSUED AS A

CERTIFICATE

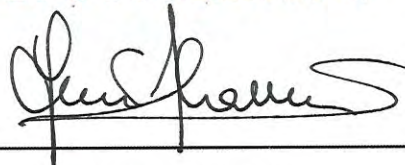
ON THE COMPLETION OF THE
COMPUTER SECURITY INCIDENT RESPONSE TEAM TRAINING

TO

Andrei Lunga

CHISINAU, REPUBLIC OF MOLDOVA

21 OCTOBER 2016



LAURI ALMANN
DIRECTOR



*This activity
is supported by:*

The NATO Science for Peace
and Security Programme

This is to certify that

Andrei Lunga

*has completed the Technology Risk Supervision program
and is now an associate of the Toronto Centre*

Signed on the 31st of May, 2019



Babak Abbaszadeh
President & CEO
Toronto Centre



Vakhtang Abrahamyan
Deputy Governor
Central Bank of Armenia

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BREACH
AVOIDANCE**

We are proud to award the title of

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to

Andrei Lunga

from

I.M. "ORANGE MOLDOVA" S.A.

in recognition of successful completion of the certification requirements for

Bitdefender Business Solutions Portfolio

Date of completion

2022-06-23

Ovidiu Lepadatu
Partner Enablement & LMS Director

This certification requires renewal at each product generation release and does not confer an academic degree



Asociația DNT

Public Association

DNT



Networking
Academy

CERTIFICAT

de absolvire a cursurilor

CCNA (CISCO CERTIFIED NETWORK ASSOCIATE)

Prin prezentul, se confirmă că:

Andrei Lunga

a completat cu succes curricula propusă de Cisco Networking Academy în volum de 380 de ore și a însușit următoarele competențe teoretice și practice:

- Principii de bază de proiectare, implementare și administrare rețelelor de calculatoare.
- Protocoale de rutare: static, RIP, RIPv2, EIGRP, EIGRP for IPv6, OSPF, OSPFv3, multi-area OSPF
- Protocoale de agregare a canalelor de comunicație: PAGP, LACP
- Principiile de comutație în rețele locale LAN și Wireless, VLAN, protocoale STP, VTP.
- Tehnologii WAN, ISDN, Frame Relay, IPv6, ACL, DHCP, NAT, VPN.
- Protocoale de asigurare a redundanței: HSRP, VRRP și GLBP
- Protocoale de monitorizare stării de rețea: Syslog, SNMP, NetFlow
- Configurarea dispozitivelor de rețea Cisco pe baza sistemului de operare IOS.

Instructor: Nicolae Gălușcă




Data eliberării: 27.09.2019



NSE Certification
Program



**This certifies that
Cozma Ion
has achieved
NSE 2 Network Security Associate**

Date of achievement: June 6, 2022

Valid until: June 6, 2024

Certification Validation number: VE2seU6ewL

Ken Xie
CEO of Fortinet

Michael Xie
President and Chief Technology
Officer (CTO), Fortinet



Verify this certification's authenticity at:
https://training.fortinet.com/mod/customcert/verify_certificate.php



NSE Certification
Program



**This certifies that
Cozma Ion
has achieved
NSE 3 Network Security Associate**

Date of achievement: June 11, 2022

Valid until: June 11, 2024

Certification Validation number: d3TR4dz8TT

Ken Xie
CEO of Fortinet

Michael Xie
President and Chief Technology
Officer (CTO), Fortinet



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Certificate of Completion

Nichita SVECICHIN

Has Successfully Completed

Cybersecurity Fundamentals

Date

02/09/2024



Michael Kelley
SVP, Worldwide Shared Services

Certificate of Completion

Nichita SVECICHIN

Has Successfully Completed

Network Security Fundamentals

Date

02/13/2024



Michael Kelley
SVP, Worldwide Shared Services

Certificate of Completion

Nichita SVECICHIN

Has Successfully Completed

Sales Product Specialist - Hardware Firewall

Date

02/23/2024



Michael Kelley
SVP, Worldwide Shared Services

Certificate of Completion

Nichita SVECICHIN

Has Successfully Completed

Security Operations Fundamentals

Date

02/20/2024



Michael Kelley
SVP, Worldwide Shared Services

Certificate of Completion

Nichita SVECICHIN

Has Successfully Completed

Palo Alto Networks Systems Engineer (PSE): Foundation

Date

02/26/2024



Michael Kelley
SVP, Worldwide Shared Services

Certificate of Completion

Nichita SVECICHIN

Has Successfully Completed

Cloud Security Fundamentals

Date

02/15/2024



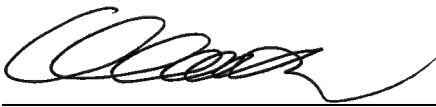
Michael Kelley
SVP, Worldwide Shared Services

**This certifies that
Nichita Svecichin
has achieved
Fortinet Certified Associate in Cybersecurity**

Date of achievement: January 23, 2024

Valid until: January 23, 2026

Certification validation number: 5367592486NS



Ken Xie
CEO of Fortinet



Michael Xie
President and Chief Technology
Officer (CTO), Fortinet



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Huawei Certification

Svecichin Nichita

has successfully completed the Huawei certification requirements and is recognized as a

**Huawei Certified Specialist Associate
Presales-Storage**



Valid Through Mar 18, 2026

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Certificate No. 03221701535809626811409

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A handwritten signature in black ink, appearing to be "Svecichin Nichita".

CEO

Huawei Technologies Co., Ltd.



Huawei Certification

Vitali Civga

has successfully completed the Huawei certification requirements and is recognized as a

**Huawei Certified Specialist Associate
Presales-Data Center Facility(Modular DC)**



Valid Through Mar 28, 2026

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A handwritten signature in black ink, appearing to be "Vitali Civga".

CEO

Huawei Technologies Co., Ltd.



Huawei Certification

Vitali Civga

has successfully completed the Huawei certification requirements and is recognized as a

**Huawei Certified Specialist Associate
Presales-Data Center Facility(Power)**



Valid Through Mar 28, 2026

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CEO
Huawei Technologies Co., Ltd.



Huawei Certification

Vitali Civga

has successfully completed the Huawei certification requirements and is recognized as a

**Huawei Certified Specialist Associate
Sales-Data Center Facility**



Valid Through Mar 28, 2026

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CEO
Huawei Technologies Co., Ltd.



Huawei Certification

Vitali Civga

has successfully completed the Huawei certification requirements and is recognized as a

**Huawei Certified Specialist Associate
Presales-Data Center Facility(Cooling)**



Valid Through Mar 28, 2026

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<https://e.huawei.com/cn/talent/#/cert/certificate-verification>
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CEO
Huawei Technologies Co., Ltd.



Huawei Certification

Vitali Civga

has successfully completed the Huawei certification requirements and is recognized as a

Data Center
Data Center Facility



Valid Through Oct 19, 2025

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Certificate No. 010101403535808854851409

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CEO
Huawei Technologies Co., Ltd.



Huawei Certification

Vlad Malai

has successfully completed the Huawei certification requirements and is recognized as a

WLAN



Valid Through Mar 28, 2027

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Certificate No. 010101001535809627211409

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Huawei Technologies Co., Ltd.



Huawei Certification

Vlad Malai

has successfully completed the Huawei certification requirements and is recognized as a

**Huawei Certified Specialist Associate
Sales-IP Network**



Valid Through Sep 19, 2025

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CEO

Huawei Technologies Co., Ltd.



Huawei Certification

Vlad Malai

has successfully completed the Huawei certification requirements and is recognized as a

**Huawei Certified Specialist Associate
Presales-Storage**



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CEO

Huawei Technologies Co., Ltd.



Huawei Certification

Vlad Malai

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**Huawei Certified Specialist Associate
Presales-Computing**



Valid Through Mar 05, 2026

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Certificate No. 03221401535809626291409

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CEO

Huawei Technologies Co., Ltd.



Huawei Certification

Vlad Malai

has successfully completed the Huawei certification requirements and is recognized as a

**Huawei Certified Specialist Associate
Sales-Storage**



Valid Through Oct 16, 2025

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<https://e.huawei.com/cn/talent/#/cert/certificate-verification>
Certificate No. 033152301535809254731409

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A handwritten signature in black ink, appearing to be "Vlad Malai".

CEO

Huawei Technologies Co., Ltd.



Huawei Certification

Vlad Malai

has successfully completed the Huawei certification requirements and is recognized as a

**Huawei Certified Specialist Associate
Presales-IP Network**



Valid Through Oct 10, 2025

Validate this certificate's authenticity at
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Certificate No. 03221601535809254491409

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A handwritten signature in black ink, appearing to be "Z. E. = J.".

CEO

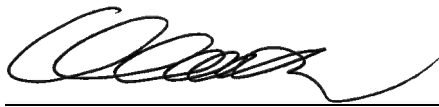
Huawei Technologies Co., Ltd.

This certifies that
Vlad MALAI
has achieved
Fortinet Certified Associate in Cybersecurity

Date of achievement: November 3, 2023

Valid until: November 3, 2025

Certification validation number: 2090105850VM



Ken Xie
CEO of Fortinet



Michael Xie
President and Chief Technology
Officer (CTO), Fortinet



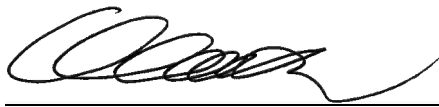
Verify this certification's authenticity at:
<https://training.fortinet.com/admin/tool/certificate/index.php>

This certifies that
Vlad MALAI
has achieved
Fortinet Certified Fundamentals in Cybersecurity

Date of achievement: November 1, 2023

Valid until: November 1, 2025

Certification validation number: 3818029707VM



Ken Xie
CEO of Fortinet



Michael Xie
President and Chief Technology
Officer (CTO), Fortinet



Verify this certification's authenticity at:
<https://training.fortinet.com/admin/tool/certificate/index.php>



Huawei Certification

Vlad Malai

has successfully completed the Huawei certification requirements and is recognized as a

Datacom



Valid Through Jun 29, 2026

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<https://e.huawei.com/cn/talent/#/cert/certificate-verification>
Certificate No. 010103901535809239251409

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A handwritten signature in black ink, appearing to be "Vlad Malai".

CEO

Huawei Technologies Co., Ltd.



Huawei Certification

Vlad Malai

has successfully completed the Huawei certification requirements and is recognized as a

Storage



Valid Through Feb 07, 2027

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Certificate No. 010100901535809622371409

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A handwritten signature in black ink, appearing to be "Vlad Malai".

CEO

Huawei Technologies Co., Ltd.



Huawei Certification

Victor Rusu

has successfully completed the Huawei certification requirements and is recognized as a

**Huawei Certified Specialist Associate
Sales-Storage**



Valid Through Oct 11, 2025

Validate this certificate's authenticity at
<https://e.huawei.com/cn/talent/#/cert/certificate-verification>
Certificate No. 033152301535809254531409

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A handwritten signature in black ink, appearing to be "Victor Rusu".

CEO

Huawei Technologies Co., Ltd.

Microsoft 365 Certified

Fundamentals

VICTOR RUSU

Has successfully completed the requirements to be recognized as a Microsoft 365 Certified: Fundamentals.

Date of achievement: October 31, 2019



A handwritten signature in black ink, appearing to read "N. Satya Nadella".

Satya Nadella
Chief Executive Officer



Certification number: H258-8341

CCNAv7: Enterprise Networking, Security, and Automation

The student has successfully achieved student level credential for completing CCNAv7: Enterprise Networking, Security, and Automation course administered by the undersigned instructor. The student was able to proficiently:

- Configure single-area OSPFv2 in both point-to-point and multiaccess networks.
- Explain how to mitigate threats and enhance network security using access control lists and security best practices.
- Implement standard IPv4 ACLs to filter traffic and secure administrative access.
- Configure NAT services on the edge router to provide IPv4 address scalability.
- Explain techniques to provide address scalability and secure remote access for WANs.
- Explain how to optimize, monitor, and troubleshoot scalable network architectures.
- Explain how networking devices implement QoS.
- Implement protocols to manage the network.
- Explain how technologies such as virtualization, software defined networking, and automation affect evolving networks.

Victor Rusu

Student

Public Association DNT


Academy Name

Moldova

Location

1 Dec 2022

Date



Laura Quintana
VP & General Manager, Cisco Networking Academy

CCNAv7: Introduction to Networks

The student has successfully achieved student level credential for completing CCNAv7: Introduction to Networks course administered by the undersigned instructor. The student was able to proficiently:

- Configure switches and end devices to provide access to local and remote network resources.
- Explain how physical and data link layer protocols support the operation of Ethernet in a switched network.
- Configure routers to enable end-to-end connectivity between remote devices.
- Create IPv4 and IPv6 addressing schemes and verify network connectivity between devices
- Explain how the upper layers of the OSI model support network applications.
- Configure a small network with security best practices.
- Troubleshoot connectivity in a small network.

Victor Rusu

Student

Public Association DNT

Academy Name

Moldova

Location

7 Nov 2022

Date



Laura Quintana
VP & General Manager, Cisco Networking Academy

CCNAv7: Switching, Routing, and Wireless Essentials

The student has successfully achieved student level credential for completing CCNAv7: Switching, Routing, and Wireless Essentials course administered by the undersigned instructor. The student was able to proficiently:

- Configure VLANs and Inter-VLAN routing applying security best practices.
- Troubleshoot inter-VLAN routing on Layer 3 devices.
- Configure redundancy on a switched network using STP and EtherChannel.
- Troubleshoot EtherChannel on switched networks.
- Explain how to support available and reliable networks using dynamic addressing and first-hop redundancy protocols.
- Configure dynamic address allocation in IPv6 networks.
- Configure WLANs using a WLC and L2 security best practices.
- Configure switch security to mitigate LAN attacks.
- Configure IPv4 and IPv6 static routing on routers.

Victor Rusu

Student

Public Association DNT

Academy Name

Moldova

Location

17 Oct 2022

Date



Laura Quintana
VP & General Manager, Cisco Networking Academy

This is to certify that
Victor Rusu

Has achieved the

**ITIL® Foundation Certificate in
IT Service Management**

Effective from **17 Sep 2021**

Expiry date **N/A**

Certificate number **GR671311603VR**

Candidate number **9980092171195426**



Mark Basham, CEO, AXELOS



Panoraia Theleriti, Certification Qualifier, PeopleCert

ITIL 4 Edition

Printed on 23 September 2021

This certificate remains the property of the issuing Examination Institute and shall be returned immediately upon request.

Microsoft Certified

Azure Fundamentals

VICTOR RUSU

Has successfully completed the requirements to be recognized as a Microsoft Certified: Azure Fundamentals.

Date of achievement: June 11, 2021



A handwritten signature in black ink, appearing to read "N. Satya Nadella".

Satya Nadella
Chief Executive Officer





Andrei Lunga

Work : 75 Alba Iulia Street, MD-2071, mun. Chişinău, Moldova

Email: andrei.lunga@orange.com **Phone**: (+373) 69198878

Gender: Male **Date of birth**: 10/09/1995 **Nationality**: Moldovan

WORK EXPERIENCE

[10/03/2020 – Current]

Solutions Expert Engineer

Orange Moldova

City: Chisinau

Country: Moldova

1. Product Owner of B2B Virtual PBX service;
2. Presales Solutions Expert Engineer based on vendors: CISCO, Juniper;
3. Technical Solutions Expert Engineer based on vendors:
 - a. Networking: CISCO, Juniper, Huawei, Fortinet;
 - b. Servers/Storage: Lenovo, HPE, Dell;
 - c. Microsoft: Microsoft 365, Microsoft Azure;
 - d. Antivirus: Kaspersky, Bitdefender.
4. Architecture design of SD-WAN, SDN, SD-Access solutions;
5. Architecture design of scalable, fault tolerant and secure compute, storage and networking solutions;
6. Customer infrastructure on premise assessment and migration to Azure cloud solutions.

[17/06/2016 – 29/02/2020]

expert, lead expert, Deputy IT Director, Direcția generală tehnologii informaționale

National Commission for Financial Markets

Address: Chişinău, Moldova

City: Chisinau

Country: Moldova

1. Responsible for ensuring continuous operation of National Importance Automated Informational System RCA Data (*internal obligatory insurance and Green Card insurance issuing and validation*);
2. Development and implementation of internal policies and guides according to ITILv4;
3. Development and implementation of Security Incident Response and Disaster Recovery policies;
4. Implementation, configuration and management of Microsoft Hyper-V Cluster (SDS, Failover, Replication);
5. Architecture and migration of VM's from VMware Esxi 5.5 to Microsoft Hyper-V;
6. Configuration and management of networking equipment: Checkpoint NGFW, CISCO Catalyst;
7. Configuration and management of Kaspersky Enterprise and Bitdefender Elite Antivirus;
8. Configuration and management of critical Microsoft Services: AD, WSUS, MDT, WDS, KMS, MS Sql Server;
9. Elaboration of Terms of References for public bids;
10. In house development:
 - a. Automated information system related to the calculation of the stock market index MDX10;
 - b. e-Testing platform destined for the certification in insurance field;

EDUCATION AND TRAINING

[23/06/2022 – Current]

Bitdefender Certified Technical Specialist

Bitdefender

[25/02/2022 – Current]

Microsoft Azure Architect Technologies

Microsoft Learning Gold Partner

[21/02/2022 – 21/02/2024]

Lenovo Certified Data Center Technical Sales Professional

Lenovo

[16/02/2022 – 16/02/2024]

Lenovo Certified Storage Sales Professional

Lenovo

[28/10/2021 – Current]

Certified Professional: Kaspersky Endpoint Security and Management

Kaspersky

[13/10/2021 – Current]

Sales Specialist: Kaspersky Endpoint Security for Business

Kaspersky

[29/04/2021 – 30/04/2024]

Microsoft Certified: Azure Administrator Associate

Microsoft Learning Gold Partner

[30/07/2020 – Current]

Microsoft Certified: Azure Fundamentals

Microsoft Learning Gold Partner

[24/06/2020 – Current]

Microsoft 365 Fundamentals

Microsoft Learning Gold Partner

[11/11/2019 – Current]

Cursul LPIC-1

Public Association DNT

Address: mun. Chişinău, Moldova

- Instalarea și configurarea unui sistem de operare bazat pe Linux;
- Configurarea componentelor hardware și periferice;
- Înțelegerea și lucrul cu sistemul de fișiere într-un sistem Linux;
- Aleagerea, instalarea și configurarea unui boot manager;
- Folosirea aplicațiilor de management al pachetelor software;
- Folosirea liniei de comandă și automatizarea administrării sistemului folosind scripturi și servicii programate;
- Gestionarea utilizatorilor și a grupurilor;
- Activarea și monitorizarea serviciilor de rețea pe un sistem Linux;
- Modificarea configurației sistemului pentru a asigura securitatea datelor și comunicațiilor.

[26/05/2019 – 31/05/2019]

Technology Risk Supervision

Toronto Centre, Central Bank of Armenia

Address: Dilijan, Armenia

- Technology Risks;
- IT Governance & Management;
- Information Security;
- Cyber security attacks and steps to avoid them;
- Cyber Risks: An Assessment Approach;
- Outsourcing & Third-Party Dependency;
- Emerging Technology Trends & Risk Exposures;
- Distributed ledger technologies: use of blockchain with and without crypto-assets;
- Regulation of crypto-assets;
- Regtech and Suptech;
- Enhancing Technology Supervision.

[07/09/2019 – 02/11/2019]

Contabilitate și 1C

Centrul de Instruire și Consultanță în Contabilitate "MASTER STUDIO"

Address: mun. Chișinău, Moldova

- Bazele contabilității;
- Contabilitate financiară;
- Legislația fiscală, contabilitatea impozitelor, întocmirea și prezentarea Situațiilor financiare;
- 1C-Contabilitate, versiunea 8.3

[01/10/2018 – 27/09/2019]

Cursul CCNAv6

Public Association DNT

Address: mun. Chișinău, Moldova

1. Principii de bază de proiectare, implementare și administrare a rețelelor;
2. Protocoale de rutare: static, RIP, RIPv2, EIGRP, EIGRP for IPv6, OSPF, multi-area OSPF;
3. Protocoale de agregare a canalelor de comunicație: PAGP, LACP;
4. Principiile de comutație în rețele locale LAN și Wireless, VLAN, protocoale STP, VTP;
5. Tehnologii WAN, ISDN, Frame Relay, IPv6, ACL, DHCP, NAT, VPN;
6. Protocoale de asigurare a redundanței: HSRP, VRRP și GLBP;
7. Protocoale de monitorizare stării de rețete: Syslog, SNMP, NetFlow;
8. Configurarea dispozitivelor de rețete Cisco pe baza sistemului de operare IOS

[10/10/2016 – 23/10/2016]

Computer Security Incident Response Team Training

Universitatea Tehnică a Moldovei

Address: mun. Chișinău, Moldova

NATO SPS Programme (G985083)

- Vulnerability handling;
- Technology watch and security audits;
- Risk analysis and security consulting;
- Education/training;
- Configuration and maintenance of security tools;
- Artifact handling and forensics;
- Defence of networks;

[01/09/2014 – 23/06/2017]

Facultatea Matematică și Informatică, specialitatea Informatică aplicată

Universitatea de Stat din Moldova

Address: mun. Chișinău, Moldova

LANGUAGE SKILLS

Mother tongue(s): Romanian , Russian

Other language(s):

English

LISTENING C1 READING C1 WRITING C1

SPOKEN PRODUCTION C1 SPOKEN INTERACTION C1

German

LISTENING B2 READING B2 WRITING B2

SPOKEN PRODUCTION B2 SPOKEN INTERACTION B2

ORGANISATIONAL SKILLS

Organisational skills

1. Compliance with the principles of professional morality and ethics;
2. The ability to achieve the proposed objectives through involvement and perseverance;
3. Analytical thinking, intelligent and non standard approaches in solving tasks;
4. Autonomy, with escalation or guidance seeking for decisions that are beyond functional duties and/or current knowledge;
5. Responsibility for the decisions taken, accepting the consequences, taking conclusions from the accumulated experience;
6. Dedication to solving problems, engagement in constructive dialogues.

COMMUNICATION AND INTERPERSONAL SKILLS

Communication and interpersonal skills

1. Strong communication and teamwork skills;
2. Organization of internal presentations and briefings per institution and department to increase digital education and continuous professional training of employees and colleagues;
3. Alleviating conflicts at an early stage, constructive dialogue.

CURRICULUM VITAE

Surname: Adrian
 Name: Fainis
 Date and place of birth: 21.09.1989
 Nationality: Român
 Educațional:

Institutions:	Universitatea Româno-Americană din București
Date:	2013 - 2016
Degree or qualification:	Informatica Manageriala, Cibernetica, Statistica si Informatica Economica

Language skills

Indicate on a scale of A1 to C2 (from A1 (beginner) to C2 (proficient)):

Language	Level	Passive	Spoken	Written
<i>Romanian</i>	Mother tongue			
<i>English</i>	<i>C2</i>	<i>C2</i>	<i>C2</i>	<i>C2</i>

Membership of professional bodies: Fortinet Community

Other skills (e.g. computer literacy): Network Security/ Network Security/ Network Administration/ Linux/ DNS Server/ Virtualization/ VMware/Firewalls

Current position: Network Security Engineer

Years of professional experience: 7

Key qualifications: Communication/ Teamwork/ Negotiation and persuasion/ Problem solving/ Leadership/ Organisation/ Perseverance and motivation/ Ability to work under pressure/ Confidence

Professional experience:

Date: from (month/year) to (month/year)	01.11.2018 – till now
Company/organisation	NETSAFE DISTRIBUTION
Position	Network Security Engineer

Licenses and certificates

Fortinet NSE 4 Network Security Professional	Fortinet ID acreditate pfHWjZc1YG
Fortinet NSE 5 FortiManager	Fortinet ID acreditate oUeHA3bOZH
Fortinet NSE 5 Network Security Analyst	Fortinet ID acreditate byZ5EMJ2PM
Fortinet NSE 5 FortiAnalyzer	Fortinet ID acreditate S1QNdlhRkQ
Fortinet NSE 6 FortiAuthenticator	Fortinet ID acreditate S1QNdlhRkQ
Fortinet NSE 7 Network Security Architect	Fortinet ID acreditate 7FSBPTArNw
Cisco CCNA Security	Cisco ID acreditate 434714168878DRYN
Cisco CCNA Routing and Switching	Cisco ID acreditate 433804173939DMXH

<https://www.linkedin.com/in/adrian-fainis-226756101/>

PERSONAL INFORMATION Malai Vlad

📍 Nicolae Milescu Spătarul str., 11/A, 57, Chisinau City, Republic of Moldova, MD-2068

☎ 373 79 02 44 56

✉ malaivlad1@gmail.com

Sex Male | Date of birth: 20.09.1990

Nationality: Republic of Moldova

**JOB APPLIED FOR POSITION
PREFERRED JOB ICT Expert Engineer****WORK EXPERIENCE**

Job information: July 2015 – Up to date
Chief Engineer in Telecommunications

Employer: **SA Moldtelecom,**
Ștefan cel Mare str., No. 10, Chisinau City, Republic of Moldova, MD-2012
Tel.: (373 22) 57 01 01
Website: <http://www.moldtelecom.md>

Job duties responsibilities: Discussions with clients, travel to the applicant as needed, providing complex solutions (wi-fi zone, lan network, directed wi-fi, VPN, etc.) for corporate clients, creating logical schemes and drawing up work orders..

Job information: February 2015 – July 2015
Technician in the exploitation of cellular equipmentCommercial Bank

Employer: **„Venava Grup”**
A.Pușkin str., No. 47/1, Chisinau City, Republic of Moldova, MD-2004
Tel.: (373 22) 85 51 01

Job duties responsibilities: Performing the maintenance of cellular equipment for the Moldcell operator.

EDUCATION AND TRAINING

September 2013 – January 2015
Master Degree in Information Technology
The Technical University of Moldova

September 2009 – June 2013
License Degree in Teleradiocommunications
The Technical University of Moldova

PERSONAL SKILLS

Mother tongue(s) Romanian

Other language(s)	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
Russian	C2 Proficient user	C2 Proficient user	C2 Proficient user	B2 Independent user	B1 Independent user
English	A2 Basic User	A2 Basic User	A2 Basic User	A2 Basic User	A2 Basic User

Common European Framework of Reference for Languages

Communication skills Punctuality; communication skills in relations with colleagues and clients; confidentiality and retention professional secrecy; responsibility; interpersonal relationship skills; skills of excellent communication; punctuality in completing tasks; caution; good skills of negotiation; the development trend continues.

Organisational / managerial skills Good performance in solving problems under stress; team spirit; sociability; special attention to details; result-oriented accountability.

Digital competence Good command of office suite (Word processor, spread sheet, presentation software). Advanced knowledge of Microsoft Windows environments, and Office package (Visio, Word, Excel, Access, PowerPoint and Outlook). Winbox.

Other skills Problem solving skills;
Fast learner and creative;
Fully proficient in managing external and internal relationships;
Willing to learn and take on new challenges
Flexible and able to work under pressure;
Thrive in both independent and collaborative work environments.

Driving licence B, C

ADDITIONAL INFORMATION

Courses

„**MikroTik MTCNA**” (academic hours).
Certificate No. 090715/0501 from 09.07.2015, issued by The Association of Professional Accountants and Auditors of the Republic of Moldova (ACAP RM).
„**MikroTik MTCRE**” (academic hours).
„**MikroTik MTCWE**” (academic hours).
„**MikroTik MTCNE**” (academic hours).
Huawei Certified Specialist Associate „ Sales-IP Network”
Certificate No. 033152101535809250851409 Valid Through Sep 19,2025
Huawei certification „Datacom”
Certificate No. 010103901535809239251409 Valid Through Jun 29,202

CURRICULUM VITAE

Surname: Civga

Name: Vitali

Date and place of birth: 14 of March 1984, Republic of Moldova

Nationality: Gaguz

Civil status: Married

Address (phone/fax/e-mail): Moldova, Chisinau Sarateni street 1.

Phone: +37369197579. Email: lesopped@gmail.com

Education:

Institutions:	<i>The Technical university of Moldova</i>
Date:	<i>01.09.2002 31.05.2007</i>
Degree or qualification:	<i>Engineer in Telecommunication</i>

Language skills

Indicate on a scale of A1 to C2 (from A1 (beginner) to C2 (proficient)):

Language	Level	Passive	Spoken	Written
<i>Russian</i>	Mother tongue	<i>C2</i>	<i>C2</i>	<i>C2</i>
<i>Romanian</i>	<i>Intermediary</i>	<i>B2</i>	<i>B2</i>	<i>B2</i>
<i>English</i>	<i>Intermediary</i>	<i>B1</i>	<i>B1</i>	<i>B1</i>
<i>Gagauzian</i>	Mother tongue	<i>C1</i>	<i>C1</i>	<i>B2</i>

Membership of professional bodies: Presales Community

Other skills (e.g. computer literacy):

Current position: Presales Solution Expert

Years of professional experience: 19

Professional experience:

Date: from (month/year) to (month/year)	<i>01.10.2004 / 30.09.2006</i>
Place	<i>Chisinau</i>
Company/organisation	<i>MoldovaTransGaz</i>
Position	<i>Cable welder</i>
Job description	

Date: from (month/year) to (month/year)	<i>01.03.2007 / 31.03.2009</i>
Place	<i>Chisinau</i>
Company/organisation	<i>Telemedia Group</i>
Position	<i>Fix Network Engineer</i>
Job description	<i>xDSL, Ethernet connections executing / troubleshooting</i>

Date: from (month/year) to (month/year)	<i>01.04.2009 / 18.11.2014</i>
Place	<i>Chisinau</i>
Company/organisation	<i>Orange Moldova</i>
Position	<i>Fix Network Engineer</i>
Job description	<i>xDSL, Ethernet, WiFi and Radio connections executing / troubleshooting</i>

Date: from (month/year) to (month/year)	<i>19.11.2014/31.03.2016</i>
Place	Chisinau
Company/organisation	Ericsson
Position	Fix Network Engineer
Job description	xDSL, Ethernet, WiFi and Radio connections executing / troubleshooting

Date: from (month/year) to (month/year)	<i>01.04.2016/Till now</i>
Place	Chisinau
Company/organisation	Orange Moldova
Position	Presales Solution Expert
Job description	Extend the existing B2B solutions portfolio, deliver consistency of the solutions that are proposed to the customers (mobile, fixed and ICT). Identify needs and qualifications, design the technical solution, customize the solution to meet customer specifications. Design the technical architecture, services, KPIs and echo/tech analyses according to the existing standards and best known practices. Support the implementation teams to deploy and upgrade the sold solution.

Publications and seminars:

- MikroTik MTCNA- 2017
- MikroTik MTCRE- 2017
- MikroTik MTCWE- 2018
- Microsoft 365 Fundamentals – 2019
- Huawei Data Center Facility – 2022

CURRICULUM VITAE

Surname: Rusu

Name: Victor

Date and place of birth: 25.01.1985

Nationality: Moldavian

Civil status: married

Address (phone/fax/e-mail): victor.rusu@orange.com

Education: Bachelor's Degree

Institutions:	Technical University of Moldova
Date:	09/2003 – 06/2007
Degree or qualification:	Licensed Engineer in Optoelectronic Systems

Language skills

Indicate on a scale of A1 to C2 (from A1 (beginner) to C2 (proficient)):

Language	Level	Passive	Spoken	Written
Romanian	Mother tongue			
English	B2	B2	B2	B2
Russian	C2	C2	C2	C2
French	A2	A2	A2	A2

Other skills (e.g. computer literacy): experience in working with network design applications

Current position: Solutions Expert Engineer

Years of professional experience: 15

Key qualifications: Communication/ Teamwork/Problem solving/Organisation/Ability to work under pressure/Confidence

Professional experience:

Date: from (month/year) to (month/year)	2007 – 2008
Place	Republic Moldova
Company/organisation	StarNet S.R.L.
Position	Engineer in Network Management Bureau
Job description	Maintenance of Active and Passive equipment, Detecting and Solving Problems, Building the Network in New Regions.
Date: from (month/year) to (month/year)	2008 – 2009
Place	Republic Moldova
Company/organisation	StarNet S.R.L.
Position	Senior Specialist in Technical Records Bureau
Job description	Technical Documentation Development, Drawing up Schemes of Welding Access Network, Measurements and Technical Reports Preparation.
Date: from (month/year) to (month/year)	2009 – 2011
Place	Republic Moldova
Company/organisation	StarNet S.R.L.
Position	Network Design Engineer
Job description	Project Design and Technical Documentation of Backbone Network Design for Access to Individual and Corporate Clients, Linkage of Projects to Tangential Institutions, Management of Executed Projects Database.

Date: from (month/year) to (month/year)	2011 – 2014
Place	Republic Moldova
Company/organisation	I.M. Orange Moldova S.R.L.
Position	Infrastructure, Cables and Optical Fiber Engineer
Job description	FO backbone projects design and implementation follow-up, FO network implementation, development and maintenance, Planning, specifying, engineering and expertise the FO transmission backbone and its equipment.
Date: from (month/year) to (month/year)	2014 – 2015
Place	Republic Moldova
Company/organisation	Ericsson Telecommunication S.R.L.
Position	Infrastructure and Optical Fiber Engineer
Job description	FO backbone projects design and implementation follow-up, FO network implementation, development and maintenance.
Date: from (month/year) to (month/year)	2015 – prezent
Place	Republic Moldova
Company/organisation	Orange Moldova S.R.L.
Position	Solution Expert Engineer
Job description	Extend the existing B2B solutions portfolio, deliver consistency of the solutions that are proposed to the customers (mobile, fixed and ICT). Identify needs and qualifications, design the technical solution, customize the solution to meet customer specifications. Design the technical architecture, services, KPIs and echo/tech analyses according to the existing standards and best known practices. Support the implementation teams to deploy and upgrade the sold solution. Responsible for the global consistency of the solution. Shares the expertise to presales and sales teams.

15. Publications and seminars:

- Structured Cable Networks, Odessa, Ukraine – 2008
- ArcGIS Desktop I, ArcGIS Desktop II - 2010
- MikroTik MTCNA- 2016
- Microsoft 365 Fundamentals – 2019
- Microsoft Azure Fundamentals - 2021
- Microsoft Azure Administrator - 2021
- ITIL v4 – 2021
- CCNA v7 (CCNA_I; CCNA_E; CCNA_S) – 2021-2022

PERSONAL INFORMATION



COZMA Ion

📍 Republic of Moldova, Chisinau, street. Moscova 15/1 ap. 88, postcode 2068

☎ + 22 44 91 67 📠 +373 69 198 955

✉ ion.coszma@gmail.com

🌐 <https://www.linkedin.com/in/ion-cozma-ba093a165/?originalSubdomain=md>

Sex M | Date of birth 21/09/1989 | Nationality Moldavian

WORK EXPERIENCE

12.08.2019 – till now	Internal Auditor, ISO 27001, I.M. ORANGE MOLDOVA S.A., https://www.orange.md/
16.08.2017 – till now	Solutions Expert Engineer, Division Support and Development of IoT and ICT Solutions & Services I.M. ORANGE MOLDOVA S.A., https://www.orange.md/
01.11.2012 – till now	Scientific researcher, Center of Technical Creativity, Technical University of Moldova
11.10.2016 – 15.08.2017	Deputy Director, Energy Efficiency Agency, Ministry of Economy, https://aee.md/
01.12.2014 – 11.10.2016	Head of Department for Energy Efficiency and Renewable Energy Sources Monitoring, Energy Efficiency Agency, Ministry of Economy, https://aee.md/
09.10.2015 – 20.11.2015	Technical Expert United Nations Development Programme www.md.undp.org
01.10.2014 – 26.11.2014	Technical Expert United Nations Development Programme www.md.undp.org
27.08.2013 – 01.12.2014	Main Specialist of Department for Energy Efficiency and Renewable Energy Sources Monitoring, Energy Efficiency Agency, Ministry of Economy, https://aee.md/

EDUCATION AND TRAINING

Training Certified Lead Auditor ISO 27001 Officer - TÜV AUSTRIA Group	ISO 27001 Lead Auditor - Information Security Management Systems Certification Issuing authority: TÜV AUSTRIA Group Accreditation identifier: 1411/TAR-AK/12/2021
Training Certified Internal Auditor ISO 9001:2015 / ISO 19011:2018 - TÜV AUSTRIA Group	Quality Management System Internal Auditor according to ISO 9001: - Information Security Certification: ISO 9001:2015 and ISO 19011:2018 Issuing authority: TÜV AUSTRIA Group Accreditation identifier: 946/TAR-AK/09/2020
Training Certified Data Protection Officer - TÜV AUSTRIA Group	GDPR Foundation and Personal Data Protection Issuing authority: TÜV AUSTRIA Group Date of issue: Issued on Aug. 2020 Accreditation identifier: DCXGDPRDPO082001
Training - ITSM – ITIL 4 Foundation	ITSM – ITIL 4 Foundation
Training Cisco CCNA Routing & Switching - DNT	Cisco CCNA Routing and Switching (R&S) v7 Issuing authority: DNT

Training ISO 27001 Internal Auditor - Information Security Certification - TÜV AUSTRIA Group	ISO 27001 Internal Auditor - Information Security Certification Issuing authority: TÜV AUSTRIA Group Accreditation identifier: 946/TAR-AK/09/2020
Training Fortinet NSE 1	NSE 1 – Network Security Associate Issuing authority: Fortinet
Training Fortinet NSE 2	NSE 2 – Network Security Associate Issuing authority: Fortinet
Training Fortinet NSE 3	NSE 3 – Network Security Associate Issuing authority: Fortinet
Training Fortinet FT NGFW Solution	NGFW Solution Issuing authority: Fortinet
Training Lenovo ThinkSystem storage products	Training program for Lenovo ThinkSystem storage products, which included support, troubleshooting. Issuing authority: Lenovo Training Solutions
Training Kaspersky Specialist	Certified Professional: Kaspersky Endpoint Security and Management (002.11.1) Issuing authority: Kaspersky Accreditation identifier: 002.11.1-AAS-0088955
Training Information Security Management System Specialist - TÜV AUSTRIA Group	Information Security Management System Specialist Issuing authority: TÜV AUSTRIA Group Accreditation identifier: 968/TAR-AK/10/2020
Doctor of Science's studies (2014 – till now)	Technical University of Moldova Faculty: Engineering and Management in Machine Building Speciality: 242.01 Investigation of Machines and Mechatronics Research area: IoT in Energy Efficiency and Renewable Energy Sources
Master's degree studies (2014 – 2016)	Academy of Public Administration, Speciality: Public Administration and Management
Master's degree studies (2012 – 2014)	Technical University of Moldova, full time section, state budget Faculty: Engineering and Management in Energy Speciality: Engineering and Management in Energy
University studies (2009 – 2013)	Technical University of Moldova, part time section, state budget Faculty: Technology and Management in Food Industry Speciality: Technology and Management in Food Industry
University studies (2008 – 2012)	Technical University of Moldova, full time section, state budget Faculty: Engineering and Management in Machine Building Speciality: The Innovational Engineering and Technological Transfer
High school studies	Theoretical Lyceum “Ion Creanga”, Chisinau Baccalaureate exam: defended in 2007

PERSONAL SKILLS

Mother tongue(s) Romanian

Other language(s)	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C2	C2	C1	C1	C2
Russian	C2	C2	C1	C1	C1

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user
[Common European Framework of Reference for Languages](#)

Communication skills good communication skills gained through my experience as sales manager

Organisational / managerial skills leadership (responsible for a team of 20 people)

Job-related skills Communication/ Teamwork/ Negotiation and persuasion/ Problem solving/ Leadership/ Organisation/ Perseverance and motivation/ Ability to work under pressure/ Confidence

Digital competence

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem solving
Proficient user	Proficient user	Proficient user	Proficient user	Proficient user

Levels: Basic user - Independent user - Proficient user
[Digital competences - Self-assessment grid](#)

Replace with name of ICT-certificate(s)

good command of office suite (word processor, spread sheet, presentation software)
 good command of photo editing software gained as an amateur photographer

Other skills Hiking, Climbing (also industrial), Reading, Carpentry

Driving licence B

PERSONAL INFORMATION **SVECICHIN Nichita**

📍 Nicolae Testemițanu 23, Chisinau City, Republic of Moldova

📞 373 69198633

✉ nichita.svecichin@orange.com

Sex Male | Date of birth: 15.04.1994

Nationality: Republic of Moldova

WORK EXPERIENCE

Job information: January 2024 – Up to date
ICT Expert Engineer

Employer: **Orange Moldova SA**
str. Alba Iulia 75, MD-2071, Chișinău

Job duties responsibilities:

- Analyzing and offering ICT solutions for B2B clients;
- Perfecting personal skills at special trainings in the professional field;
- Working with global vendors;

Job information: March 2019 – August 2023
System Administrator (November 2020 – August 2023)
Technical Consultant (June 2020 – November 2020)
Technician for Technical Support of Network (October 2019 – June 2020)
Certification Administrator (March 2019 – October 2019)

Employer: **Information Technology and Cyber Security Center (ITSEC)**
str. Piața Marii Adunări Naționale 1, Chisinau City, Republic of Moldova

Job duties responsibilities:

- PKI infrastructure administration
- Technical support in the field of electronic signatures
- System administration, troubleshooting and monitoring
- Network setup and monitoring
- Documentation development and reports creation
- Software configuration and reporting
- Electronic signature certificates issuance

EDUCATION

September 2017 – February 2019

Master Degree

The Technical University of Moldova

The Faculty of Electronics and Telecommunications (FET), Chişinău
Program of study “Systems and Electronic Communications”

September 2009 – June 2013

Licentiate Degree

The Technical University of Moldova

The Faculty of Electronics and Telecommunications (FET), Chişinău
Program of study “Telecommunications and Radiocommunications”

September 2001 – June 2013

Baccalaureate Degree

High School “I. Ivanoglo”, High School “A. Doljenco”

Real learning profile, Vulcăneşti

PERSONAL SKILLS

Mother tongue(s) Russian

Other language(s)

		UNDERSTANDING		SPEAKING		WRITING
		Listening	Reading	Spoken interaction	Spoken production	
Romanian		C2 Proficient user	C2 Proficient user	C2 Proficient user	B2 Independent user	B1 Independent user
English		B2 Independent user	B2 Independent user	B2 Independent user	B2 Independent user	B2 Independent user

Common European Framework of Reference for Languages

Communication, organisational and managerial skills

Ability to work in stressful situations, analytical thinking ability, punctuality and diligence in work, ability to find a common language with colleagues, optimism and team spirit

Driving licence B, B1

ADDITIONAL INFORMATION

Certificates

Orange Moldova SA

- Fortinet Certified Associate in Cybersecurity (y. 2024)
- Huawei Certified Specialist Associate Presales Storage (y. 2024)

Projects

Information Technology and Cyber Security Center (ITSEC)

- eIDAS (Pilot project of mutual recognition of electronic signatures between European Union and Republic of Moldova) (y. 2023)

Conference

Information Technology and Cyber Security Center (ITSEC)

- Moldova Cyber Security (2019)

State University of Moldova

- International scientific conference – MSCMP (2016)

Technical University of Moldova

- English language conference (2014)
- Technical scientific conference (2014)

Olympiad

Technical University of Moldova

- Physics (2014)

High School “I. Ivanoglo”, High School “A. Doljenco”

- Mathematics, local (2009, 2011, 2012, 2013)
- Mathematics, regional (2009, 2011, 2012, 2013)
- Mathematics, republican (2013)

CURRICULUM VITAE

Surname: Bulgaru

Name: Anatolie

Date and place of birth: 03.03.1978

Nationality: Moldavian

Civil status: married

Address (phone/fax/e-mail): anatolie.bulgaru@orange.com

Education: Bachelor's Degree

Institutions:	Scoala Nationala de Studii Politice si Administrative
Date:	09/1997 – 06/2001
Degree or qualification:	Degree Name Master's degree Field Of Study PR, Communication & Elections Marketing,

Language skills

Indicate on a scale of A1 to C2 (from A1 (beginner) to C2 (proficient)):

Language	Level	Passive	Spoken	Written
Romanian	Mother tongue			
English	C2	C2	C2	C2
Russian	C2	C2	C2	C2

Other skills (e.g. computer literacy):

Current position: Head of B2B ICT and IoT

Years of professional experience: 22

Key qualifications: Projects planning / Organizing Agile teams / Communication with clients / Managing reports / Company projects coordination

Professional experience:

Date: from (month/year) to (month/year)	04.2002 – 04.2003
Place	Republic Moldova
Company/organisation	Megadat.Com SRL
Position	Key Account
Date: from (month/year) to (month/year)	05.2003 – 12.2004
Place	Republic Moldova
Company/organisation	Megadat.Com SRL
Position	Head of Customer Service
Date: from (month/year) to (month/year)	01.2005 – 03.2009
Place	Republic Moldova
Company/organisation	IM Telemidia Group SA
Position	Commercial Director
Date: from (month/year) to (month/year)	2009 – 2010
Place	Republic Moldova
Company/organisation	Orange Moldova SA
Position	Fix Sales Manager

Date: from (month/year) to (month/year)	2010 – 2012
Place	Republic Moldova
Company/organisation	Orange Moldova SA
Position	SME Sales Manager
Date: from (month/year) to (month/year)	2012 – 2016
Place	Republic Moldova
Company/organisation	Orange Moldova SA
Position	Presales and M2M Manager
Date: from (month/year) to (month/year)	2016 – 2017
Place	Republic Moldova
Company/organisation	Orange Moldova SA
Position	Head of Presales and M2M
Date: from (month/year) to (month/year)	2018 – Present
Place	Republic Moldova
Company/organisation	Orange Moldova SA
Position	Head of B2B ICT and IoT

Projects:

Virtual PBX product.

A smart and affordable landline solution for your office.

<https://www.orange.md/ro/business/virtualpbx>

DDoS solution.

DDoS protection presents a technical solution for the protection of information systems against cyber-attacks of DDoS type - Distributed Denial of Service.

<https://cert.orange.md/ro/ddos>

Cert Pro solution.

CERT Pro is a service that offers a set of tools for protection and response to cyber security threats only to corporate fixed Internet subscribers Orange Moldova.

<https://cert.orange.md/ro/certpro>

Business Internet Security solution.

All the elements necessary to configure the Business Internet Security service, as well as the processing capabilities are hosted in the Orange cloud. Thus, you have a complete system for securing Internet connections without investing in physical equipment.

<https://cert.orange.md/ro/bis>

Publications and seminars:

- ITIL Foundation Level
Issuing authority AXELOS Global Best Practice 2020, ID GR671186947AB
- Cisco Networking Academy
Degree Name Cisco Certified Network Associate Routing & Switching (CCNA), v7, 2019 – 2020
- Degree Name AZ-900T00 Microsoft Azure Fundamentals & AZ-104T00A Microsoft Azure Administrator 2020
- Degree Name MS-900T01 Microsoft 365 Fundamentals & MS-100T01 Office 365 Management 2019
- Lenovo Certified Storage Products 2021

https://www.linkedin.com/search/results/all/?keywords=Anatolie%20Bulgaru&origin=GLOBAL_SEARCH_HEADER&sid=.iW

Cisco Firepower 1000 Series

Cisco Secure Firewall ASA

Cisco Secure Firewall Threat Defense (FTD)



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Cisco Firepower 1000 Series Appliances

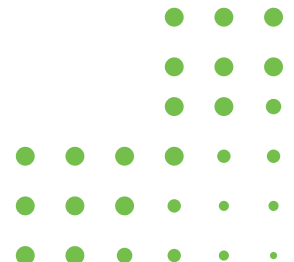
The Cisco Firepower® 1000 Series is a family of firewall platforms that delivers business resiliency, management ease-of-use, and threat defense. They offer exceptional sustained performance when advanced threat functions are enabled. 1000 Series addresses use cases from small offices to remote branches. 1000 Series platforms run Cisco Threat Defense (FTD) or Cisco ASA software.

Model overview



Cisco Firepower 1000 Series summary

Model	Throughput: Threat Defense Software	IPS Throughput	Interfaces
FPR-1010	890 Mbps	900 Mbps	8 x RJ45
FPR-1120	2.3 Gbps	2.6 Gbps	8 x RJ45, 4 x SFP
FPR-1140	3.3 Gbps	3.5 Gbps	8 x RJ45, 4 x SFP
FPR-1150	5.3 Gbps	6.1 Gbps	8 x RJ45, 2 x SFP, 2 x 10G SFP+



Detailed performance specifications and feature highlights

Table 1. Performance specifications and feature highlights for Cisco Firepower 1000 with the Threat Defense (FTD) image

Features	1010/1010E	1120	1140	1150
Throughput: Firewall (FW) + Application Visibility and Control (AVC) (1024B)	890 Mbps	2.3 Gbps	3.3 Gbps	5.3 Gbps
Throughput: FW + AVC + Intrusion Prevention System (IPS) (1024B)	880 Mbps	2.3 Gbps	3.3 Gbps	4.9 Gbps
Maximum concurrent sessions, with AVC	100K	200K	400K	600K
Maximum new connections per second, with AVC	6K	15K	22K	28K
Transport Layer Security (TLS)	195 Mbps	850 Mbps	1.2 Gbps	1.4 Gbps
Throughput: NGIPS (1024B)	900 Mbps	2.6 Gbps	3.5 Gbps	6.1 Gbps
IPSec VPN throughput (1024B TCP w/Fastpath)	400 Mbps	1.2 Gbps	1.4 Gbps	2.4 Gbps
Maximum VPN Peers	75	150	400	800
Cisco Device Manager (local management)	Yes	Yes	Yes	Yes
Centralized management	Centralized configuration, logging, monitoring, and reporting are performed by the Threat Defense Manager (FMC) or, alternatively, from the cloud with Cisco Defense Orchestrator			
AVC	Standard, supporting more than 4000 applications, as well as geolocations, users, and websites			
AVC: OpenAppID support for custom, open-source application detectors	Standard			
Cisco Security Intelligence	Standard, with IP, URL, and DNS threat intelligence			
Cisco IPS	Available; can passively detect endpoints and infrastructure for threat correlation and Indicators of Compromise (IoC) intelligence			
Cisco Malware Defense for Networks	Available; enables detection, blocking, tracking, analysis, and containment of targeted and persistent malware, addressing the attack continuum both during and after attacks. Integrated threat correlation with Cisco AMP for Endpoints is also optionally available			
Cisco Malware Analytics sandboxing	Available			
URL filtering: number of categories	More than 80			
URL filtering: number of URLs categorized	More than 280 million			
Automated threat feed and IPS signature updates	Yes: class-leading Collective Security Intelligence (CSI) from the Cisco Talos® group (https://www.cisco.com/c/en/us/products/security/talos.html)			
Third-party and open-source ecosystem	Open API for integrations with third-party products; Snort® and OpenAppID community resources for new and specific threats			
High availability and clustering	Active/standby			
Cisco Trust Anchor Technologies	Cisco Firepower 1000 Series platforms include Trust Anchor Technologies for supply chain and software image assurance. Please see the section below for additional details			

Note: Performance will vary depending on features activated, and network traffic protocol mix, and packet size characteristics. Performance is subject to change with new software releases. Consult your Cisco representative for detailed sizing guidance.



Table 2. ASA Performance and capabilities on Firepower 1000 appliances

Features	1010/1010E	1120	1140	1150
Stateful inspection firewall throughput ¹	2 Gbps	4.5 Gbps	6 Gbps	7.5 Gbps
Stateful inspection firewall throughput (multiprotocol) ²	1.4 Gbps	2.5 Gbps	3.5 Gbps	4.5 Gbps
Concurrent firewall connections	100,000	200,000	400,000	600,000
Firewall latency (UDP 64B microseconds)	-	-	-	-
New connections per second	25,000	75,000	100,000	150,000
IPsec VPN throughput (450B UDP L2L test)	500 Mbps	1 Gbps	1.2 Gbps	1.7 Gbps
Maximum VPN Peers	75	150	400	800
Security contexts (included; maximum)	NA	2; 5	2; 5	2; 25
High availability	Active/standby	Active/active and Active/standby	Active/active and Active/standby	Active/active and Active/standby
Clustering	-			
Scalability	VPN Load Balancing			
Centralized management	Centralized configuration, logging, monitoring, and reporting are performed by Cisco Security Manager or alternatively in the cloud with Cisco Defense Orchestrator			
Adaptive Security Device Manager	Web-based, local management for small-scale deployments			

Performance testing methodologies [LINK](#)

1. Throughput measured with 1500B User Datagram Protocol (UDP) traffic measured under ideal test conditions.
2. "Multiprotocol" refers to a traffic profile consisting primarily of TCP-based protocols and applications like HTTP, SMTP, FTP, IMAPv4, BitTorrent, and DNS.





Hardware specifications

Table 3. Cisco Firepower 1000 Series hardware specifications

Features	1010	1010E	1120	1140	1150
Dimensions (H x W x D)	1.82 x 7.85 x 8.07 in.		1.72 x 17.2 x 10.58 in.	1.72 x 17.2 x 10.58 in.	1.72 x 17.2 x 10.58 in.
Form factor	Compact (Desktop, wall-mount)		Rack mount, 1U	Rack mount, 1U	Rack mount, 1U
Network interfaces	8 x 1000BASE-T		8 x 1000BASE-T 4 x SFP	8 x RJ-45 4 x SFP	8 x RJ-45 2 x SFP 2 x SFP+
Power over Ethernet	2 ports PoE+ (IEEE 802.3at)	N/A	N/A	N/A	N/A
Management interfaces	1x 1000BASE-T 1x Serial console (RJ-45)		1x 1000BASE-T 1x Serial console (RJ-45)	1x 1000BASE-T 1x Serial console (RJ-45)	1x 1000BASE-T 1x Serial console (RJ-45)
USB	1 x USB 3.0 Type-A (500mA)		1 x USB 3.0 Type-A (500mA)	1 x USB 3.0 Type-A (500mA)	1 x USB 3.0 Type-A (500mA)
Storage	1 x 200 GB		1 x 200 GB	1 x 200 GB	1 x 200 GB
Power supply configuration	External power supply, AC input		Integrated, single AC input	Integrated, single AC input	Integrated, single AC input
AC input voltage	100 to 240V AC		100 to 240V AC	100 to 240V AC	100 to 240V AC
AC maximum current draw	< 2A at 100V, < 1A at 240V		< 2A at 100V, < 1A at 240V	< 2A at 100V, < 1A at 240V	< 2A at 100V, < 1A at 240V
AC maximum power draw	115W	55W	100W	100W	100W
AC frequency	50 to 60 Hz		50 to 60 Hz	50 to 60 Hz	50 to 60 Hz
AC efficiency	>88% at 50% load		>85% at 50% load	>85% at 50% load	>85% at 50% load
Fans	None		1 integrated fan	1 integrated fan	1 integrated fan
Noise	0 dBA		31.7 dBA @ 25C, 56.8 dBA at highest system performance	34.2 dBA @ 25C, 56.8 dBA at highest system performance	34.2 dBA @ 25C, 56.8 dBA at highest system performance
Rack mounting	Via optional rack mount kit		2-post mounting Brackets included.	2-post mounting Brackets included.	2-post mounting Brackets included.
Weight	3 lb (1.4 kg)		8 lb (3.6 kg)	8 lb (3.6 kg)	8 lb (3.6 kg)
Temperature: operating	32 to 104° F (0 to 40° C)		32 to 104° F (0 to 40° C)	32 to 104° F (0 to 40° C)	32 to 104° F (0 to 40° C)
Temperature: nonoperating	-13 to 158° F (-25 to 70° C)		-13 to 158° F (-25 to 70° C)	-13 to 158° F (-25 to 70° C)	-13 to 158° F (-25 to 70° C)
Humidity: operating	90% noncondensing		90% noncondensing	90% noncondensing	90% noncondensing
Humidity: nonoperating	10 to 90% noncondensing		10 to 90% noncondensing	10 to 90% noncondensing	10 to 90% noncondensing
Altitude: operating	9,843 ft (max) 3,000 m (max)		9,843 ft (max) 3,000 m (max)	9,843 ft (max) 3,000 m (max)	9,843 ft (max) 3,000 m (max)
Altitude: nonoperating	15,000 ft (max)		15,000 ft (max)	15,000 ft (max)	15,000 ft (max)

Table 4. Cisco Firepower 1000 Series regulatory, safety, and EMC compliance

Specification	Description
Regulatory compliance	Products comply with CE markings per directives 2004/108/EC and 2006/108/EC
Safety	<ul style="list-style-type: none"> • UL 60950-1 • CAN/CSA-C22.2 No. 60950-1 • EN 60950-1 • IEC 60950-1 • AS/NZS 60950-1 • GB4943
EMC: emissions	<ul style="list-style-type: none"> • 47CFR Part 15 (CFR 47) Class A (FCC Class A) • AS/NZS CISPR22 Class A • CISPR22 CLASS A • EN55022 Class A • ICES003 Class A • VCCI Class A • EN61000-3-2 • EN61000-3-3 • KN22 Class A • CNS13438 Class A • EN300386 • TCVN7189
EMC: immunity	<ul style="list-style-type: none"> • EN55024 • CISPR24 • EN300386 • KN24 • TVCN 7317 • EN-61000-4-2, EN-61000-4-3, EN-61000-4-4, EN-61000-4-5, EN-61000-4-6, EN-61000-4-8, EN61000-4-11

Cisco Capital

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Cisco Capital® makes it easier to get the right technology to achieve your objectives, enable business transformation and help you stay competitive. We can help you reduce the total cost of ownership, conserve capital, and accelerate growth. In more than 100 countries, our flexible payment solutions can help you acquire hardware, software, services and complementary third-party equipment in easy, predictable payments. [Learn more.](#)

Document history

New or Revised Topic	Described In	Date
Product Performance numbers updated	Series Summary Table and Table 1	July 14, 2021
Added 1010E	Table 1 , Table 3	



Authorization Letter

Date: April 26, 2024

We, **Huawei Technologies Co., Ltd.** (hereinafter referred to as **Huawei**), hereby appoints **Orange Moldova S.A.** as 3* Certified Huawei Service Partner for Data Communication and Enterprise IT for Moldova Market, on a non-exclusive, non-transferable and revocable basis as an Authorized Channel Partner to purchase Products and/or Services from Authorized Source and Resell Products to End User, market and Resell one or more of Services without Added Value to End User, integrate its certain Added Value into a specific Service as partner-branded service ("Partner -branded Service") and provide it to End User within the Territory. "Within the Territory" means that End Users must deploy the Products and/or receive the Services in Moldova, Republic of do hereby authorized

I.M. Orange Moldova S.A. (hereinafter referred to as Orange), a duly organized under the laws of Moldova, with legal address at 75, Alba Iulia str., Chisinau, Moldova, to provide Huawei's products and service support in the Bid,

"**Echipamentului pentru asigurarea funcționării rețelei corporative**" for:

Issued by: Casa Națională de Asigurări Sociale

Fiscal Code: 1004600030235

Legal address: MD-2028, MOLDOVA, Mun. Chisinau, str. Gheorghe Tudor 3.

A handwritten signature in blue ink, appearing to be the name of a legal representative.

: Legal Representative of Huawei Technologies Co., Ltd.

DECLARAȚIE

privind includerea în Lista producătorilor de produse supuse reglementărilor de responsabilitate extinsă a producătorilor

Prin prezenta Declarație, compania I.M. "Orange MOLDOVA" S.A. declară pe proprie răspundere că este inclusă în Lista producătorilor de produse supuse reglementărilor de responsabilitate extinsă a producătorilor, în condițiile pct. 111 din Regulamentul privind deșeurile de echipamente electrice și electronice, aprobat prin HG nr. 212/2018.

Numărul de Înregistrare: MD2022-5-EEE-001

Informația privind includerea în Lista producătorilor de produse supuse reglementărilor de responsabilitate extinsă a producătorilor poate fi verificata pe <https://siamd.gov.md/portal/deee.html>.

Data completării 25.04.2024

Cu stimă,
Anatolie Bulgaru
Head of B2B IoT and ICT
Î.M. „Orange Moldova” S.A.

Acest act este semnat prin aplicarea **Semnăturii Mobile**
Verificarea semnăturii - <https://msign.gov.md/#/verify/upload>