Anexa nr.22

## Specificaţii tehnice

*[Acest tabel va fi completat de către ofertant în coloanele 2, 3, 4, 6, 7, iar de către autoritatea contractantă – în coloanele 1, 5,]*

| | | | | | | |
|---|---|---|---|---|---|---|
| Numărul procedurii de achiziţie: **ocds-b3wdp1-MD-1651150300779 din 28.04.2022** | | | | | | |
| Denumirea procedurii de achiziţie: **Achiziţionarea Paravanului de protecţie NGFW (Next-Generation Firewall)** | | | | | | |
| **Denumirea serviciilor** | **Denumirea modelului serviciului** | **Ţara de origine** | **Producătorul** | **Specificarea tehnică deplină solicitată de către autoritatea contractantă** | **Specificarea tehnică deplină propusă de către ofertant** | **Standarde de referinţă** |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| **Lotul 1 Achiziţionarea Paravanului de protecţie NGFW (Next-Generation Firewall)** | | | | | | |
| **1.1** Paravan de protecţie (Next-Generation Firewall) | **FPR1120-NGFW-K9** Cisco Firepower 1120 NGFW Appliance, 1U | **United Kingdom** | **Cisco International Limited** | Conform caietului de sarcini Anexa nr. 21 | Conform Anexei la formularul Specificații tehnice. Matricea de conformitate | Moldova Standard |
| **1.2** Licente Sofware incluse cu NGFW solicitat la p. 1.1 | **- L-FPR1120T-TMC-3Y,** Cisco FPR1120 Threat Defense Threat, Malware and URL 3Y Subsciption<br>**- AC-PLS-P-25-S,** Cisco AnyConnect 25 User Plus Perpetual License | | | | | |

Semnat:
Nume: **Irina Vicol**
În calitate de: **Administrator**
Ofertantul: **Xontech Systems SRL**
Adresa: str. Alexandru cel bun 85, MD-2012, mun Chisinau, Republica Moldova.
Data:

Digitally signed by Vicol Irina
Date: 2022.05.11 10:55:49 EEST
Reason: MoldSign Signature
Location: Moldova

**Anexa**

**Matricea de conformitate conform caietului de sarcini solicitate in SIA RSAP, Anexa nr. 21 la documentatia standard**

| # | Part Number | Description | Qty |
|---|---|---|---|
| **1.0** | **FPR1120-NGFW-K9** | **Cisco Firepower 1120 NGFW Appliance, 1U cu 36 luni suport incluse** | **1** |
| | included: | | |
| 1.1 | CAB-ACE | AC Power Cord (Europe), C13, CEE 7, 1.5M | 1 |
| 1.2 | SF-F1K-TD7.0.1-K9 | Cisco Firepower Threat Defense software v7.0.1 for FPR1000 | 1 |
| 1.3 | FPR1K-RM-SSD200- | Cisco Firepower 1K Series 200GB for FPR-1120/1140 | 1 |
| 1.4 | FPR1K-RM-ACY-KIT | Cisco Firepower 1K Series Accessory Kit for FPR-1120/1140 | 1 |
| 1.5 | FPR1000-ASA | Cisco Firepower 1000 Standard ASA License | 1 |
| 1.6 | FPR1K-EXCLUDE-SUBS | Cisco Firepower 1000 Series - Exclude Subscriptions | 1 |
| 1.7 | FPR-LTP-QR-LBL | Cisco Firepower QR Label - Internal Use Only | 1 |
| | | | |
| **1.0.1** | **CON-SNT-FRP11209** | **SNTC-8X5XNBD Cisco Firepower 1120 NGFW Appliance, 1U** | **1** |
| | | | |
| 2.0 | L-FPR1120T-TMC= | Cisco FPR1120 Threat Defense Threat, Malware and URL License | 1 |
| | included: | | |
| **2.0.1** | **L-FPR1120T-TMC-3Y** | **Cisco FPR1120 Threat Defense Threat, Malware and URL 3Y Subs** | **1** |
| | | | |
| 3.0 | L-AC-PLS-P-G | Cisco AnyConnect / RA VPN Plus Perpetual License Group | 1 |
| | included: | | |
| 3.0.1 | CON-ECMU-LACPLSPG | SWSS UPGRADES Cisco AnyConnect / RA VPN Plus Perpetual Lice | 1 |
| **3.1** | **AC-PLS-P-25-S** | **Cisco AnyConnect 25 User Plus Perpetual License** | **2** |
| 3.2 | L-AC-PLS-P-25 | Cisco AnyConnect 25 User Plus Perpetual (ASA License Key) | |
| | | | |
| **3.1.0.1** | **CON-ECMU-ACPL25** | **SWSS UPGRADES Cisco AnyConnect 25 User Plus Perpetual License** | **2** |

| Nr. d/o | Denumirea bunurilor solicitate | Specificarea tehnică deplină solicitată de către autoritatea contractantă | | Specificarea tehnică deplină propusă de către ofertant | |
|---|---|---|---|---|---|
| | | **Caracteristica** | **Cerinte tehnice minimale** | **Caracteristica** | **Cerinte tehnice oferite** |
| 1.1 | Paravan de protecție (Next-Generation Firewall) | Type | Next-Generation Firewall, cu 36 luni suport incluse **sau echivalentul care să acopere cerințele de mai jos.** | Type | Next-Generation Firewall **FPR1120-NGFW-K9**, **Cisco Firepower 1120 NGFW Appliance**, 1U cu 36 luni 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 second, with AVC | 15K | Maximum new connections per second, with AVC | 15K |
| | | 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, Cisco Device Manager (local management) |
| | | Centralized management | Centralized configuration, logging, monitoring, and reporting | 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 | Standard, supporting more than 4000 applications, as well as geolocations, users, and websites |
| | | AVC: OpenAppID support for custom, open-source application detectors | Standard | | AVC: OpenAppID support for custom, 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. |
| | | 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 | | Automated threat feed and IPS signature updates | Yes |
| | | Third-party and opensource ecosystem | Open API for integrations with third-party products; Snort® and OpenAppID community resources for new and specific threats | | Third-party and opensource ecosystem | Open API for integrations with third-party products; Snort® and OpenAppID community resources for new and specific threats |

| | | | | | | |
|---|---|---|---|---|---|---|
| | | Trust Anchor Technologies | Include Trust Anchor Technologies for supply chain and software image assurance. | | Trust Anchor Technologies | Include Trust Anchor Technologies for supply chain and software image assurance. |
| | | 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 UDP L2L test) | 1 Gbps | | IPsec VPN throughput (450B UDP L2L 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 |
| | | Scalability | VPN Load Balancing | | Scalability | VPN Load Balancing |
| | | 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 |
| AC input voltage | 100 to 240V AC |
| AC maximum input current | < 2A at 100V, < 1A at 240V |
| AC maximum output power | 100W |
| AC frequency | 50 to 60 Hz |
| AC efficiency | >85% at 50% load |
| Fans | 1 integrated fan2 |
| Noise | 31.7 dBA @ 25C, 56.8 dBA at highest system performance |
| Rack mountable | Yes. Fixed mount brackets included (2-post). |
| Humidity: operating | 90% noncondensing |
| Humidity: nonoperating | 10 to 90% noncondensing |
| Regulatory compliance | Products comply with CE markings per directives 2004/108/EC and 2006/108/EC |
| Safety | ● UL 60950-1<br>● CAN/CSA-C22.2 No. 60950-1<br>● EN 60950-1<br>● IEC 60950-1<br>● AS/NZS 60950-1<br>● GB4943 |
| EMC: emissions | ● 47CFR Part 15 (CFR 47) Class A (FCC Class A)<br>● AS/NZS CISPR22 Class A<br>● CISPR22 CLASS A<br>● EN55022 Class A<br>● ICES003 Class A<br>● VCCI Class A |


| | |
|---|---|
| Power supply configuration | +12V |
| AC input voltage | 100 to 240V AC |
| AC maximum input current | < 2A at 100V, < 1A at 240V |
| AC maximum output power | 100W |
| AC frequency | 50 to 60 Hz |
| AC efficiency | >85% at 50% load |
| Fans | 1 integrated fan2 |
| Noise | 31.7 dBA @ 25C, 56.8 dBA at highest system performance |
| Rack mountable | Yes. Fixed mount brackets included (2- post). |
| Humidity: operating | 90% noncondensing |
| Humidity: nonoperating | 10 to 90% noncondensing |
| Regulatory compliance | Products comply with CE markings per directives 2004/108/EC and 2006/108/EC |
| Safety | ● UL 60950-1<br>● CAN/CSA-C22.2 No. 60950-1<br>● EN 60950-1<br>● IEC 60950-1<br>● AS/NZS 60950-1<br>● GB4943 |
| EMC: emissions | ● 47CFR Part 15 (CFR 47) Class A (FCC Class A)<br>● AS/NZS CISPR22 Class A<br>● CISPR22 CLASS A<br>● EN55022 Class A<br>● ICES003 Class A<br>● VCCI Class A |

| | | | | | |
|---|---|---|---|---|---|
| | | | ● EN61000-3-2<br>● EN61000-3-3<br>● KN22 Class A<br>● CNS13438 Class A<br>● EN300386<br>● TCVN7189 | | ● EN61000-3-2<br>● EN61000-3-3<br>● KN22 Class A<br>● CNS13438 Class A<br>● EN300386<br>● TCVN7189 |
| | | EMC: immunity | ● EN55024<br>● CISPR24<br>● EN300386<br>● KN24<br>● TVCN 7317<br>● 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 | EMC: immunity | ● EN55024<br>● CISPR24<br>● EN300386<br>● KN24<br>● TVCN 7317<br>● 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 |
| | | **Condițiile de prestare:**<br>- Ofertantul va asigura migrarea de la dispozitivul vechi (CISCO ASA 5520 din anul 2007) la cel nou prin realizarea configurărilor necesare a dispozitivului existent al Beneficiarului și cel nou ofertat, prin instalarea și configurarea celui ofertat cu setarea tuturor parametrilor aplicabili în corespundere cu cerințele înaintate pe infrastructura Beneficiarului.<br>- Oferta va include instalarea, configurarea si darea in exploatare a produsului ofertat, inclusiv transferul de cunoștințe către Beneficiar, pentru a permite celor instruiți să preia menținerea și configurarea ulterioară a echipamentului ofertat, în conformitate cu necesitățile.<br>- Pentru aceasta ofertantul va demonstra capacitatea sa prin prezentarea următoarelor:<br>• Ofertantul va prezenta Certificat al inginerului tehnic din cadrul companiei ofertante pe produsul ofertat si inclusiv certificatul Cisco Certified Network Associate Routing and Switching sau echivalentul.<br>- 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. | | **Condițiile de prestare:**<br>- Xontech Systems va asigura migrarea de la dispozitivul vechi (CISCO ASA 5520 din anul 2007) la cel nou prin realizarea configurărilor necesare a dispozitivului existent al Beneficiarului și cel nou ofertat, prin instalarea și configurarea celui ofertat cu setarea tuturor parametrilor aplicabili în corespundere cu cerințele înaintate pe infrastructura Beneficiarului.<br>- Oferta include instalarea, configurarea si darea in exploatare a produsului ofertat, inclusiv transferul de cunoștințe către Beneficiar, pentru a permite celor instruiți să preia menținerea și configurarea ulterioară a echipamentului ofertat, în conformitate cu necesitățile.<br>- Pentru aceasta cu oferta sunt atașate următoarele:<br>• Certificat al inginerului tehnic din cadrul companiei pe produsul ofertat si inclusiv certificatul Cisco Certified Network Associate Routing and Switching.<br>- Autorizare(MAF) de la producător, actul care atestă dreptul oficial al Xontech Systems pe teritoriul R. Moldova de a livra bunuri/lucrări/servicii. |

| | | | |
|---|---|---|---|
| 1.2 | Licente Sofware incluse cu NGFW solicitat la p. 1.1 | 1. Licență Threat Defense Threat, Malware and URL cu minimum 3 ani subscripție..<br>2. Licență perpetuă pentru acces VPN securizat pentru minimum 50 User. | 1. Licență **L-FPR1120T-TMC-3Y**, **Cisco FPR1120 Threat Defense Threat, Malware and URL 3Y Subscription**.<br>2. Licență perpetuă pentru acces VPN securizat **AC-PLS-P-25-S, Cisco AnyConnect 25 User Plus Perpetual License (2 bundles)**care va acoperi cei 50 Useri solicitati. |