

SECTIUNEA II

CAIETUL DE SARCINI

**CONPET S.A.**

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CUI: 1350020; Cod CAEN 4950; Înregistrată la Registrul
Comerțului Prahova sub numărul J29/6/22.01.1991
Capital social subscris și vărsat 28 569 842,40 lei



Caiet de sarcini

Privind achiziția "Modernizare rețea informatică"

Prezentare generală

CONPET SA dorește modernizarea rețelei interne prin înlocuirea echipamentelor CISCO existente, pentru sediile sale din Ploiești, strada Anul 1848 nr.1-3 și strada Rezervoarelor nr.8. Echipamentele trebuie să îndeplinească următoarele condiții:

Echipamente acces :

- Layer 2 (LAN Base or LAN Lite Cisco IOS software features), management;
- 24 or 48 Gigabit Ethernet ports with line-rate forwarding performance;
- Stackable switches;
- Reduced power consumption and advanced energy management features;
- Gigabit Small Form-Factor Pluggable (SFP);
- Power over Ethernet (PoE) ;
- Management ports ethernet and USB;
- Cisco Threat Defense features including Port Security, Dynamic ARP Inspection, and IP Source Guard.,
- Secure Shell (SSH) Protocol, Kerberos, and Simple Network Management Protocol Version 3 (SNMPv3);
- Comprehensive 802.1X Features to control access to the network, including Flexible Authentication, 802.1x Monitor Mode, and RADIUS Change of Authorization;
- Access Control Lists (ACLs) for IPv6 and IPv4 for security and QoS ACEs;
- TACACS+ and RADIUS;
- IGMP filtering;
- Bridge protocol data unit (BPDU) Guard;
- IGMP filtering;
- Per-VLAN Rapid Spanning Tree (PVRST+);
- IEEE 802.1s/w Rapid Spanning Tree Protocol (RSTP) and Multiple Spanning Tree Protocol (MSTP) ;
- Cisco VLAN Trunking Protocol (VTP);
- Network Timing Protocol (NTP);
- Switch-port auto-recovery (Error Disable) ;
- Enhanced limited lifetime warranty (E-LLW) offering next-business-day hardware replacement;

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**Echipamente distributie :**

- Layer 3 (IP Services), management
- Gigabit Small Form-Factor Pluggable (SFP) or 10G SFP+ uplink;
- 24 or 48 Gigabit Ethernet ports with line-rate forwarding performance;
- Redundant, modular power supplies
- Gigabit Small Form-Factor Pluggable (SFP);
- management ports, ethernet and USB;
- Cisco Threat Defense features including Port Security, Dynamic ARP Inspection, and IP Source Guard.,
- Secure Shell (SSH) Protocol, Kerberos, and Simple Network Management Protocol Version 3 (SNMPv3)
- Comprehensive 802.1X Features to control access to the network, including Flexible Authentication, 802.1x Monitor Mode, and RADIUS Change of Authorization.
- Access Control Lists (ACLs) for IPv6 and IPv4 for security and QoS ACEs.
- Bridge protocol data unit (BPDU) Guard
- IGMP filtering
- Per-VLAN Rapid Spanning Tree (PVRST+)
- IEEE 802.1s/w Rapid Spanning Tree Protocol (RSTP) and Multiple Spanning Tree Protocol (MSTP)
- Cisco VLAN Trunking Protocol (VTP)
- Network Timing Protocol (NTP)
- Switch-port auto-recovery (Error Disable)
- Enhanced limited lifetime warranty (E-LLW) offering next-business-day hardware replacement
- Advanced IP unicast routing protocols RIP, OSPF, EIGRP, BGPv4,
- IPv6 routing (RIPng, OSPFv3, EIGRPv6)

Echipamente core :

- Layer 3 (IP Services), management;
- Gigabit SFP pentru uplink-uri echipamente.
- Redundant, modular power supplies
- Capacitate mare de procesare pachete IP.
- Secure Shell (SSH) Protocol, Kerberos, and Simple Network Management Protocol Version 3 (SNMPv3)
- Network Timing Protocol (NTP)
- Advanced IP routing protocols RIP, OSPF, EIGRP, BGPv4,
- IPv6 routing (RIPng, OSPFv3, EIGRPv6)
- Enhanced limited lifetime warranty (E-LLW) offering next-business-day hardware replacement



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Border

- Gigabit Ethernet WAN routed ports;
- Redundant, modular power supplies;
- high-performance multi-core processors;
- IPv4, IPv6, Static Routes, Open Shortest Path First (OSPF), Enhanced IGRP (EIGRP), Border Gateway Protocol (BGP), BGP Router Reflector, Intermediate System-to-Intermediate System (IS-IS), Multicast Internet Group Management Protocol (IGMPv3) Protocol Independent Multicast sparse mode (PIM SM), PIM Source Specific Multicast (SSM), Distance Vector Multicast Routing Protocol (DVMRP), IPsec, Generic Routing Encapsulation (GRE), Bi-Directional Forwarding Detection (BFD), IPv4-to-IPv6 Multicast, MPLS, L2TPv3, 802.1ag, 802.3ah, L2 and L3 VPN.
- HSRP, VRRP, GLBP
- SNMP, Remote Monitoring (RMON), syslog, NetFlow.

Cisco Prime Infrastructure

- network management solutions for comprehensive network management;
- configuration, monitoring, troubleshooting, reporting, and administrative tools.

Cerinte tehnice

Echipament	Specificatii	Cant.
C1-C2960X-48LPS-L	Catalyst 2960-X 48 GigE PoE 370W, 4 x 1G SFP, LAN Base	21
WS-C2960XR-24TS-I	Catalyst 2960-XR 24 GigE, 4 x 1G SFP, IP Lite	2
C1-WS3850-24S/K9	Cisco One Catalyst 3850 24 Port Fiber Switch	4
WS-C3850-24XS-E	Cisco Catalyst 3850 24 Port 10G Fiber Switch IP Services	2
N3K-C3548P-10GX	Nexus 3548-X 48 SFP+ ports, Enhanced	2
C1-CISCO4431/K9	Cisco ONE ISR 4431 (4GE,3NIM,8G FLASH,4G DRAM,IPB)	2
NIM-ES2-4	4-port Layer 2, GE Switch Network Interface Module	2
R-ISE-VM-K9=	Cisco Identity Services Engine VM (eDelivery)	1
L-ISE-TACACS=	Cisco ISE Device Admin License	1
R-PI31-SW-K9	Prime Infrastructure 3.1 Software	1
Accesorii si conectica necesara		
GLC-T=	1000BASE-T SFP transceiver module for Category 5 copper wire, RJ-45 connector	8
SFP-10G-SR-S=	10GBASE-SR SFP Module, Enterprise-Class	12
GLC-SX-MMD=	1000BASE-SX SFP transceiver module, MMF, 850nm, DOM	56
GLC-LH-SMD=	1000BASE-LX/LH SFP transceiver module, MMF/SMF, 1310nm, DOM	12
Suport tehnic pentru produsele achizitionate, pentru o perioada de minim 2 ani de la punerea in functiune.		

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**Cisco Prime Infrastructure :**

- R-PI31-SW-K9 - Prime Infrastructure 3.1 Software
- CON-3ECMU-RPI31SW9 - SWSS UPGR 3YR DISTI Prime Infrastructure 3.1 Software
- L-MGMT3X-PI-BASE - Cisco Ent MGMT: PI 3.x Platform Base Lic

Toate cerințele sunt minimale. Neîndeplinirea integrală a acestora va duce la declararea ofertei ca fiind neconformă.

Ofertantul va prezenta, în cadrul ofertei tehnice, documente suport (datasheet emis de producator) pentru fiecare tip de echipament ofertat, din care să reiasă îndeplinirea tuturor cerințelor minimale din prezentul caiet de sarcini.

Lucrarile de configurare, instalare si testare a noii retele vor fi acoperite de specialistii din cadrul societatii.

Întocmit

Lucian Gheorghe

Avizat

Cătălin Mereașu