**Спецификация**

**к запросу предложений № 1939508 от «08» декабря 2020 года**

**на поставку оборудования и лицензий для проекта D365 ПАО «Юнипро»**

Срок поставки: **15.03.2021 - 31.03.2021**

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| № | Наименование продукции | Комплектация | Ед. изм. | Кол-во |
| 1 | Сервер Lenovo ThinkSystem SR650 7X06CTO1WW, 2xCPU Xeon 6258R 2.7GHz, B4H4 24x64GB DDR4 2933MHz, 2xBCFR P5600 3.2TB NVME, 2xATZU EmulexFC 16Gb, AUKK LOM 4xSFP+, 2xB8HS 240GB SSD, 2xBEAP LAN10/25 SFP28, 2x1600W, 5Yr Foundat Srv, 4xSFP28-25G, 4xSFP+10G |

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| **Артикул** | **Наименование** | **Шт.** |
| 7X06CTO1WW | Server : ThinkSystem SR650 - 3yr Warranty | 1 |
| AUVV | ThinkSystem SR650 2.5" Chassis with 8, 16 or 24 bays | 1 |
| BAZR | Intel Xeon Gold 6258R 28C 205W 2.7GHz Processor | 2 |
| B4H4 | ThinkSystem 64GB TruDDR4 2933MHz (2Rx4 1.2V) RDIMM | 24 |
| AUR5 | ThinkSystem 2U/Twr 2.5" AnyBay 8-Bay Backplane | 1 |
| 5977 | Select Storage devices - no configured RAID required | 1 |
| AUNL | ThinkSystem 430-8i SAS/SATA 12Gb HBA | 1 |
| AUV2 | ThinkSystem 1610-4P NVMe Switch Adapter | 1 |
| BCFR | ThinkSystem U.2 Intel P5600 3.2TB Mainstream NVMe PCIe 4.0 x4 Hot Swap SSD | 2 |
| AUMV | ThinkSystem M.2 with Mirroring Enablement Kit | 1 |
| B8HS | ThinkSystem M.2 5300 240GB SATA 6Gbps Non-Hot Swap SSD | 2 |
| B4PB | ThinkSystem SR650 x16/x8/x16 PCIE Riser1 | 1 |
| AURC | ThinkSystem SR550/SR650 x16/x8(or x16) PCIe FH Riser 2 Kit | 1 |
| AUKK | ThinkSystem 10Gb 4-port SFP+ LOM | 1 |
| ATZU | Emulex 16Gb Gen6 FC Single-port HBA | 2 |
| BEAP | ThinkSystem Mellanox ConnectX-5 EN 10/25GbE SFP28 2-port PCIe Ethernet Adapter | 2 |
| AVWG | ThinkSystem 1600W (230V) Platinum Hot-Swap Power Supply | 2 |
| 6311 | 2.8m, 10A/100-250V, C13 to IEC 320-C14 Rack Power Cable | 2 |
| AUPW | ThinkSystem XClarity Controller Standard to Enterprise Upgrade | 1 |
| AXCA | ThinkSystem Toolless Slide Rail | 1 |
| AUS8 | ThinkSystem 2U EIA Latch w/ VGA Upgrade Kit | 1 |
| AV1F | Lenovo 3m 25G SFP28 Active Optical Cable | 4 |
| ATYY | Lenovo 3m SFP+ to SFP+ Active Optical Cable | 4 |
| B0MK | Enable TPM 2.0 | 1 |
| B7Y0 | Enable IPMI-over-LAN | 1 |
| AURX | ThinkSystem 2U Security Bezel | 1 |
| B4NL | ThinkSystem SR650 Refresh MB | 1 |
| B6ZQ | ThinkSystem SR650 Agency Label Lenovo, No CCC | 1 |
| AUSY | Lenovo ThinkSystem 2U 24 2.5"HDD Conf HDD sequence Label (12-15 NVMe) | 1 |
| AUTF | ThinkSystem 4-7 sequence Label for 2U 2.5" | 1 |
| AWFF | ThinkSystem SR650 WW Lenovo LPK | 1 |
| B7HL | NVMe Cable- 2x8 Slimline SAS to x8 Slimline | 1 |
| AUSN | P-Switch to 2U 8X2.5" HDD BP NVME Cable | 1 |
| AUSM | MS 2nd 2U 8X2.5" Cable Kit | 1 |
| BE0B | Non-Redundant | 1 |
| B0ML | Feature Enable TPM on MB | 1 |
| AUAK | 2U Bracket for Mellanox ConnectX-4 Lx 2x25GbE SFP28 Adapter | 2 |
| AVJ2 | ThinkSystem 4R CPU HS Clip | 2 |
| AUSZ | ThinkSystem SR650 Service Label LI | 1 |
| AWF9 | ThinkSystem Response time Service Label LI | 1 |
| AURR | ThinkSystem M3.5 Screw for Riser 2x2pcs and Planar 5pcs | 4 |
| B173 | Companion Part for XClarity Controller Standard to Enterprise Upgrade in Factory | 1 |
| AUT9 | ThinkSystem 1600W RDN PSU Caution Label | 1 |
| AUSA | Lenovo ThinkSystem M3.5" Screw for EIA | 4 |
| B31F | ThinkSystem M.2 480GB SSD Thermal Kit | 1 |
| AUTJ | ThinkSystem common Intel Label | 1 |
| AVEN | ThinkSystem 1x1 2.5" HDD Filler | 6 |
| AUSG | ThinkSystem SR650 6038 Fan module | 1 |
| AUSF | Lenovo ThinkSystem 2U MS CPU Performance Heatsink | 2 |
| AUTD | ThinkSystem SR650 model number Label | 1 |
| AVWK | ThinkSystem EIA Plate with Lenovo Logo | 1 |
| AUTA | XCC Network Access Label | 1 |
| B0WB | ThinkSystem 8x25 Fixed Filler ASSM | 2 |
| B0WV | ThinkSystem SR650 unuse BP Label 205W CPU | 2 |
| AUTQ | ThinkSystem small Lenovo Label for 24x2.5"/12x3.5"/10x2.5" | 1 |
| AURQ | Lenovo ThinkSystem 2U 3FH Riser Bracket | 1 |
| AURP | Lenovo ThinkSystem 2U 2FH Riser Bracket | 1 |
| AUSU | ThinkSystem Package for SR650 | 1 |
| A2HP | Configuration ID 01 | 1 |
| 5374CM1 | Configuration Instruction | 1 |
| AVE7 | ThinkSystem 430-8i SAS/SATA 12Gb HBA placement | 1 |
| A2JX | Controller 01 | 1 |
| A2HP | Configuration ID 01 | 1 |
| 5WS7A01544 | Foundation Service - 5Yr NBD Resp SR650 | 1 |
| 5641PX5 | XClarity Pro, Per Endpoint w/5 Yr SW S&S | 1 |
| 1341 | Lenovo XClarity Pro, Per Managed Endpoint w/5 Yr SW S&S | 1 |
| 3444 | Registration only | 1 |

 | шт | 7 |
| 2 | Коммутатор Cisco Nexus N9K-C93180-FX-B24C, NXOS-ES-XF, QSFP-40/100-SRBD 8шт., CON-SNT-N93YCFXB 60month |

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| **Артикул** | **Наименование** | **Шт.** |
| N9K-C93180-FX-B24C | 2xNexus 93180YC-FX w/ 8x 100G Optics | 1 |
| CON-SNT-N93YCFXC | SNTC-8X5XNBD 2xNexus 93180YC-FX w/ 8x QSFP-100G-PSM4- | 1 |
| C1-SUBS-OPTOUT | OPT OUT FOR "Default" DCN Subscription Selection | 2 |
| MODE-NXOS | Dummy PID for mode selection | 2 |
| N9K-C93180YC-FX-B | Nexus 93180YC-FX bundle PID | 1 |
| CON-SNT-N93YCFXB | SNTC-8X5XNBD Nexus 93180YC-FX bun | 1 |
| NXOS-9.3.5 | Nexus 9500, 9300, 3000 Base NX-OS Software Rel 9.3.5 | 1 |
| NXK-ACC-KIT-1RU | Nexus 3K/9K Fixed Accessory Kit, 1RU front and rear removal | 1 |
| NXA-FAN-30CFM-F | Nexus Fan, 30CFM, port side exhaust airflow | 4 |
| NXA-PAC-500W-PE | Nexus NEBs AC 500W PSU - Port Side Exhaust | 2 |
| NXOS-ES-XF | NX-OS Essentials license for Nexus 9300 (10G+) Platforms | 1 |
| CON-ECMU-N9SWESXF | SWSS UPGRADES NX-OS Essentials license for Nexus 9300 | 1 |
| NXK-PICK-BIDI | PID to select QSFP-100G-SR-BD Optic in the bundle | 1 |
| QSFP-40/100-SRBD | 100G and 40GBASE SR-BiDi QSFP Transceiver, LC, 100m OM4 MMF | 4 |
| N9K-C93180YC-FX-B | Nexus 93180YC-FX bundle PID | 1 |
| CON-SNT-N93YCFXB | SNTC-8X5XNBD Nexus 93180YC-FX bun | 1 |
| NXOS-9.3.5 | Nexus 9500, 9300, 3000 Base NX-OS Software Rel 9.3.5 | 1 |
| NXK-ACC-KIT-1RU | Nexus 3K/9K Fixed Accessory Kit, 1RU front and rear removal | 1 |
| NXA-FAN-30CFM-F | Nexus Fan, 30CFM, port side exhaust airflow | 4 |
| NXA-PAC-500W-PE | Nexus NEBs AC 500W PSU - Port Side Exhaust | 2 |
| CAB-C13-C14-2M-JP | Power Cord C13-C14, 2M/6.5ft Japan PSE mark | 2 |
| NXOS-ES-XF | NX-OS Essentials license for Nexus 9300 (10G+) Platforms | 1 |
| CON-ECMU-N9SWESXF | SWSS UPGRADES NX-OS Essentials license for Nexus 9300 | 1 |
| NXK-PICK-BIDI | PID to select QSFP-100G-SR-BD Optic in the bundle | 1 |
| QSFP-40/100-SRBD | 100G and 40GBASE SR-BiDi QSFP Transceiver, LC, 100m OM4 MMF | 4 |
| CAB-C13-C14-2M-JP | Power Cord C13-C14, 2M/6.5ft Japan PSE mark | 2 |

 | шт | 1 |
| 3 | Коммутаторы Cisco Catalyst 9500-32C-A, C9500-DNA-A-3Y, C9K-PWR-1600WACR/2, CON-SNT-C95AC032-60month |

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| **Артикул** | **Наименование** | **Шт.** |
| C9500-32C-A | Catalyst 9500 32-port 100G only, Advantage | 1 |
| C9500-NW-A | C9500 Network Stack, Advantage | 1 |
| C9K-PWR-1600WAC-R | Catalyst 9500 1600W Power Supply | 1 |
| C9K-PWR-1600WACR/2 | 1600W AC Config 4 Power Supply front to back cooling | 1 |
| CAB-C15-CBN-JP | Japan Cabinet Jumper Power Cord, 250 VAC 12A, C14-C15 | 2 |
| C9K-F1-SSD-BLANK | Cisco pluggable SSD storage | 1 |
| C9K-T2-FANTRAY | Catalyst 9500 Type 5 front to back cooling Fan | 5 |
| C9500-DNA-32C-A | C9500 DNA Advantage, Term License | 1 |
| C9500-DNA-A-3Y | Cisco Catalyst 9500 DNA Advantage 3 Year License | 1 |
| PI-LFAS-T | Prime Infrastructure Lifecycle & Assurance Term - Smart Lic | 3 |
| PI-LFAS-AP-T-3Y | PI Dev Lic for Lifecycle & Assurance Term 3Y | 3 |
| QSFP-100G-CU1M | 100GBASE-CR4 Passive Copper Cable, 1m | 4 |
| NETWORK-PNP-LIC | Network Plug-n-Play Connect for zero-touch device deployment | 1 |
| QSFP-100G-AOC7M | 100GBASE QSFP Active Optical Cable, 7m | 4 |
| SC9500HNPE-173 | Cisco Catalyst 9500H XE 17.3 UNIVERSAL - NPE | 1 |
| QSFP-100G-CU3M | 100GBASE-CR4 Passive Copper Cable, 3m | 2 |
| CON-SNT-C95AC032 | SNTC-8X5XNBD Catalyst 9500 32-port 100G only, Advanta | 1 |

 | шт | 2 |
| 4 | Коммутаторы Cisco Nexus MDS 9148S 16G FC, M9148S-PL12, DS-SFP-FC16G-SW-24шт |

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| **Артикул** | **Наименование** | **Шт.** |
| DS-C9148S-12PK9 | MDS 9148S 16G FC switch, w/ 12 active ports | 1 |
| CON-SNT-C48S | SNTC-8X5XNBD MDS 9148S 16G FC switch | 1 |
| DS-9148S-KIT-CSCO | MDS 9148S Accessory Kit for Cisco | 1 |
| DS-SFP-FC16G-SW | 16 Gbps Fibre Channel SW SFP+, LC | 24 |
| CAB-C15-CBN | Cabinet Jumper Power Cord, 250 VAC 13A, C14-C15 Connectors | 2 |
| M9148S-PL12 | MDS 9148S 16G FC 12-port upgrade license | 1 |
| M91S5K9-8.4.2 | MDS 9148S NX-OS version 8.4(2) | 1 |

 | шт | 2 |
| 5 | Блок розекток LENOVO PDU  | 00YE443 DPI Universal 7 C13 PDU | шт | 2 |
| 6 | Крепление коммутатора Cisco | C9500-4PTH-KIT= 9500 Accessory Kit | шт | 2 |
| 7 | Лицензии Microsoft Windows Server Datacenter Core 2019 16Lic | Microsoft Windows Server Datacenter Core 2019 16Lic | шт | 21 |
| 8 | Лицензии Microsoft Windows Server Datacenter Core 2019 2Lic | Microsoft Windows Server Datacenter Core 2019 2Lic | шт | 28 |

**Требования к поставщику:**

1. Наличие у исполнителя партнерского статуса компании-производителя оборудования (Lenovo, Cisco), наличие партнерского статуса Майкрософт с правом предоставления лицензий на программное обеспечения Microsoft на территории Российской Федерации
2. Наличие у исполнителя авторизационных писем на право заключения указанного договора от компаний-производителей оборудования или предлагаемого решения.
3. Наличие опыта поставки, монтажа, пуско-наладки телекоммуникационных решений, наличие опыта по поставке лицензий и подписки на услуги Майкрософт (к закупочной документации Справка о перечне и объемах выполнения аналогичных договоров за 10 последних лет).