

**REPORT TO MAYOR AND COUNCIL****TO THE HONORABLE MAYOR AND COUNCIL:**

DATE: June 23, 2015

SUBJECT: AUTHORIZE THE PURCHASE OF CISCO NETWORK INFRASTRUCTURE IN THE AMOUNT OF \$1,175,378.47 (COMPUTER REPLACEMENT FUND)**Report in Brief**

The City computer systems operate on a metropolitan area network (MAN) that is controlled by Cisco network equipment. The existing equipment, while operating as designed, has exceeded the manufacturer's support time frame and is scheduled for replacement. Funds have been established for the technology replacement of the equipment.

The proposed procurement will provide new Cisco network equipment, maintenance and support on all network equipment throughout the enterprise. Funding for the proposed procurement is included in the Information Technology Department's budget and 10-Year Plan Council approved in the annual budget process for fiscal year 2015.

Staff recommends Council approve the proposed Cisco Procurement Agreement for the replacement of the City's network equipment in the amount of \$1,175,378.47 and authorize the City Manager to execute the agreement.

Background

Concord has many locations that service the public or house staff throughout the City. These locations are connected by a fiber network providing high speed voice and data communications. This network is the primary means of data and voice communications between City employees. Network devices (routers, switches, hubs, etc.) control the network routing for both data and voice to the appropriate destination. Due to past resource and budget considerations some of the City's network equipment has exceeded its end-of-life support set by the manufacturer, others are soon to reach end-of-support. The manufacturer has given notification that they will no longer provide direct support for problems that are discovered and if the device fails replacements must be purchased from aftermarket sources. New features and functionality that may be needed to improve service or capacity may not be supported on the older equipment.

The Council has identified Infrastructure Maintenance as one of its priorities. The City's IT Strategic Plan identified three important strategies related to the replacement of the City's network equipment, including:

- ensure adequate network bandwidth to meet demand,
- migration of the core network equipment from 1GB to 10GB speeds, and
- the replacement of switches that will no longer be supported by the manufacturer.

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AMOUNT OF \$1,175,378.47 (COMPUTER REPLACEMENT FUND)**

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The current network equipment was purchased in 2007 in response to recommendations made by a strategic task force that included upgrading the network equipment to:

- Refresh the network equipment to new more efficient equipment
- Consolidation of the Civilian and Law Enforcement networks
- Acquire single manufacture product line for compatibility and service
- Negotiate equipment life term maintenance costs up front
- Evaluate procurement of equipment
- Acquire equipment which supports Voice over IP (VoIP)

Procuring the new equipment follows and builds upon these recommendations by expanding network capability to meet current and future requirements as defined in the IT Strategic Plan and replacing equipment that is no longer supported by the manufacturer.

Discussion

The current network equipment has exceeded the manufacturer's supported life span. The network equipment does function as designed, however, support is no longer available on some of the equipment and the remainder of supported equipment is only available at a premium cost. Consequently, when equipment failures occur, parts not under support must be purchased from the used market or purchase a newer model of the equipment with integration charges. As equipment gets closer to end of life, maintenance and support fees set by the manufacturer are increased. . Additionally, risk of protracted network outages is increased due to lack of manufacture's technical support for equipment issues or newly discovered security issues with unsupported equipment.

This procurement will refresh all equipment, upgrade its capability and reduce support and maintenance costs. The efficiency of new equipment will enable the City to provide state-of-the-art networking to all of the users. The proposed agreement also includes five years of support and maintenance for the procured equipment at a discounted rate.

Finance has reviewed the proposed procurement and recommends purchase.

City IT staff worked with the existing network vendor and equipment manufacturer to negotiate the best pricing for the needed upgrade. After a lengthy process, the City was able to realize a better than 60% discount off of the manufacturer's suggested retail pricing for the equipment and services required. This proposed discount surpasses the Western States Contracting Alliance (WSCA) and National Association of State Procurement Officials (NASPO) contract, providing the City the best price and value for this equipment.

Fiscal Impact

Full funding for the procurement is included in the proposed Information Technology budget and 10-Year Plans the Council approved in the annual budget process for fiscal year 2015.

**AUTHORIZE THE PURCHASE OF CISCO NETWORK INFRASTRUCTURE IN THE
AMOUNT OF \$1,175,378.47 (COMPUTER REPLACEMENT FUND)**

June 23, 2015

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Public Contact

Posting of the Council Agenda

Recommendation for Action

Staff recommends the City Council approve the purchase of Cisco Network Infrastructure in the amount of \$1,175,378.47 to replace obsolete Network Infrastructure.



Valerie J. Barone
City Manager

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Prepared by: Doug Elloway
IT Operations Manager
Doug.Elloway@cityofconcord.org

Reviewed by: Jeff Lewis
Director Information Technology
Jeff.Lewis@cityofconcord.org

Attachment: Procurement proposal



Q U O T A T I O N

Customer: City of Concord
 Attention: _____
 Phone: _____
 Quote #: 15-06-08 Combined Year End Deal
 Location: _____
 Service: _____

Date: 06/17/15
 From: **David Lincoln,**
 Office: 916-338-7070
 Fax: 916-344-5957
 Dave_lincoln@questsys.com

Comments:
 The pricing below includes additional discounts for Trade in of the existing 6500 chassis and Access layer switches. The trade in list is attached as a tab on this quotes. The Incentives include \$20,000.00 in training credit in addition to the trade in and special year end incentives, making the combined incentives for this deal approximately \$269,000.00. Please note that the trade in hardware will need to be returned to Quest. Cisco provides 60 days for the return. We can request extensions, but request that you expedite the return. Cisco has authorized the pricing through July 15, 2015.

| Tax | Part # | Description | Qty | List | WSCA Price | Trade in Credit | Year End Discount | Price | Ext Price |
|-----|-------------------|--|-----|-------------|-------------|-----------------|-------------------|-----------|-----------|
| | | Core Upgrade | | | | | | | |
| | | Astound - 7K | | | | | | | |
| YES | C1-N7706-B23S2E-R | Cisco ONE N7706 Bundle (Chassis 2xSUP2E 3xFAB2) NoPowSup | 1 | \$90,000.00 | \$55,800.00 | (\$6,300.00) | (\$9,000.00) | 40,500.00 | 40,500.00 |
| NO | CON-SNT-N723S2ER | SMARTNET 8X5XNBD C1 N7706 Bun(Chas2xSUP2E3xFAB2)NoPwr | 1 | \$7,919.00 | \$31,636.41 | | | 31,636.41 | 31,636.41 |
| YES | N77S2K9-62 | Cisco NX-OS Release 6.2 for Nexus 7700 Series | 1 | | | | | | |
| YES | N77-C7706-FAB-2 | Nexus 7700 - 6 Slot Chassis 220Gbps/Slot Fabric Module | 3 | | | | | | |
| YES | N77-AC-3KW | Nexus 7700 - 3.0KW AC Power Supply Module (Cable Included) | 4 | \$3,000.00 | \$1,860.00 | (\$210.00) | (\$300.00) | 1,350.00 | 5,400.00 |
| YES | CAB-AC-C6K-TWLK | Power Cord 250Vac 16A twist lock NEMA L6-20 plug US | 4 | | | | | | |
| YES | N77-MODULE-BLANK | Nexus 7700 - Module Blank Slot Cover | 2 | | | | | | |
| YES | C1F2PNEX77001K9 | Cisco ONE Foundation Perpetual 7700 6 Slot and Higher | 1 | \$50,000.00 | \$31,000.00 | (\$3,500.00) | (\$5,000.00) | 22,500.00 | 22,500.00 |
| NO | CON-ECMU-CF2PX771 | SWSS UPGRADES C1 Foundation Perpetual Bundle | 1 | \$7,500.00 | \$29,962.50 | | | 29,962.50 | 29,962.50 |
| YES | N77-VDC1K9 | Nexus 7700 VDC license (4 VDCs per license) | 1 | | | | | | |
| YES | N77-LAN1K9 | Nexus 7700 LAN Enterprise License (L3 protocols) | 1 | | | | | | |
| YES | N77-TRS1K9 | Nexus 7700 Transport Services License (OTV/LISP) | 1 | | | | | | |
| YES | N77-EL21K9 | Nexus 7700 Enhanced Layer 2 License (FabricPath) | 1 | | | | | | |
| YES | C1-PI-LFAS-N7K-K9 | Cisco ONE PI Device License for LF & AS for Nexus 7K | 1 | | | | | | |
| YES | C1-EGW-DC-K9 | Cisco ONE EnergyWise Mgmt Perpetual Lic - 1 DC End Point | 1 | | | | | | |
| YES | C1-DCL-N77-K9 | Cisco ONE DCNM LAN Enterprise License Nexus 7700 | 1 | | | | | | |
| YES | N77-SUP2E | Nexus 7700 - Supervisor 2 Enhanced | 1 | | | | | | |
| YES | N77-USB-2GB | Nexus 7700 - USB Flash Memory - 2GB (Expansion Flash) | 1 | \$1,200.00 | \$744.00 | (\$84.00) | (\$120.00) | 540.00 | 540.00 |
| YES | N77-SUP2E | Nexus 7700 - Supervisor 2 Enhanced | 1 | | | | | | |
| YES | N77-USB-2GB | Nexus 7700 - USB Flash Memory - 2GB (Expansion Flash) | 1 | \$1,200.00 | \$744.00 | (\$84.00) | (\$120.00) | 540.00 | 540.00 |
| YES | N77-F248XP-23E | Nexus 7700 F2-Series 48 Port 1/10GbE (SFP/SFP+) Enhanced | 1 | \$44,000.00 | \$27,280.00 | (\$3,080.00) | (\$4,400.00) | 19,800.00 | 19,800.00 |
| YES | SFP-10G-LR | 10GBASE-LR SFP Module | 4 | \$3,995.00 | \$2,476.90 | (\$279.65) | (\$399.50) | 1,797.75 | 7,191.00 |
| YES | SFP-H10GB-CU1M | 10GBASE-CU SFP+ Cable 1 Meter | 8 | \$100.00 | \$62.00 | (\$7.00) | (\$10.00) | 45.00 | 360.00 |
| YES | SFP-H10GB-CU3M | 10GBASE-CU SFP+ Cable 3 Meter | 1 | \$100.00 | \$62.00 | (\$7.00) | (\$10.00) | 45.00 | 45.00 |
| YES | SFP-H10GB-CU5M | 10GBASE-CU SFP+ Cable 5 Meter | 1 | \$150.00 | \$93.00 | (\$10.50) | (\$15.00) | 67.50 | 67.50 |
| YES | GLC-T | 1000BASE-T SFP | 8 | \$395.00 | \$244.90 | (\$27.65) | (\$39.50) | 177.75 | 1,422.00 |
| YES | N77-F248XP-23E | Nexus 7700 F2-Series 48 Port 1/10GbE (SFP/SFP+) Enhanced | 1 | \$44,000.00 | \$27,280.00 | (\$3,080.00) | (\$4,400.00) | 19,800.00 | 19,800.00 |
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| | | | | | | | | | |
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| | | PD 7K | | | | | | | |
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| YES | N77-MODULE-BLANK | Nexus 7700 - Module Blank Slot Cover | 2 | | | | | | |
| YES | C1F2PNEHX77001K9 | Cisco ONE Foundation Perpetual 7700 6 Slot and Higher | 1 | \$50,000.00 | \$31,000.00 | (\$3,500.00) | (\$5,000.00) | 22,500.00 | 22,500.00 |
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| YES | C1-DCL-N77-K9 | Cisco ONE DCNM LAN Enterprise License Nexus 7700 | 1 | | | | | | |
| YES | N77-SUP2E | Nexus 7700 - Supervisor 2 Enhanced | 1 | | | | | | |
| YES | N77-USB-2GB | Nexus 7700 - USB Flash Memory - 2GB (Expansion Flash) | 1 | \$1,200.00 | \$744.00 | (\$84.00) | (\$120.00) | 540.00 | 540.00 |
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| YES | SFP-H10GB-CU3M | 10GBASE-CU SFP+ Cable 3 Meter | 1 | \$100.00 | \$62.00 | (\$7.00) | (\$10.00) | 45.00 | 45.00 |
| YES | SFP-H10GB-CU5M | 10GBASE-CU SFP+ Cable 5 Meter | 1 | \$150.00 | \$93.00 | (\$10.50) | (\$15.00) | 67.50 | 67.50 |
| YES | N77-F248XP-23E | Nexus 7700 F2-Series 48 Port 1/10GbE (SFP/SFP+) Enhanced | 1 | \$44,000.00 | \$27,280.00 | (\$3,080.00) | (\$4,400.00) | 19,800.00 | 19,800.00 |
| YES | GLC-T | 1000BASE-T SFP | 8 | \$395.00 | \$244.90 | (\$27.65) | (\$39.50) | 177.75 | 1,422.00 |
| YES | SFP-10G-LR | 10GBASE-LR SFP Module | 4 | \$3,995.00 | \$2,476.90 | (\$279.65) | (\$399.50) | 1,797.75 | 7,191.00 |
| YES | SFP-H10GB-CU1M | 10GBASE-CU SFP+ Cable 1 Meter | 8 | \$100.00 | \$62.00 | (\$7.00) | (\$10.00) | 45.00 | 360.00 |
| YES | SFP-H10GB-CU3M | 10GBASE-CU SFP+ Cable 3 Meter | 1 | \$100.00 | \$62.00 | (\$7.00) | (\$10.00) | 45.00 | 45.00 |
| YES | SFP-H10GB-CU5M | 10GBASE-CU SFP+ Cable 5 Meter | 1 | \$150.00 | \$93.00 | (\$10.50) | (\$15.00) | 67.50 | 67.50 |
| | | City Hall Wing C. | | | | | | | |
| YES | C1-WS3650-48FQ/K9 | Cisco One Catalyst 3650 48 Port Full PoE 4x10G Uplink | 4 | \$11,100.00 | \$6,882.00 | (\$777.00) | (\$1,110.00) | 4,995.00 | 19,980.00 |
| NO | CON-SNT-3648FQK9 | SMARTNET 8X5XNBD C1 Cat 3650 48 Port Full PoE 4x10GUplink | 4 | \$666.00 | \$2,660.67 | | | 2,660.67 | 10,642.68 |
| YES | C1FPCAT36502K9 | Cisco One Foundation Perpetual - Catalyst 3650 48-port | 4 | \$2,120.00 | \$1,314.40 | (\$148.40) | (\$212.00) | 954.00 | 3,816.00 |
| NO | CON-ECMU-C1FC3652 | SWSS UPGRADES C1 FND Perpetual-Catalyst 3650 48-port | 4 | \$318.00 | \$1,270.41 | | | 1,270.41 | 5,081.64 |
| YES | C1APCAT36502K9 | Cisco One Advanced Perpetual - Catalyst 3650 48-port | 4 | \$7,000.00 | \$4,340.00 | (\$490.00) | (\$700.00) | 3,150.00 | 12,600.00 |
| NO | CON-ECMU-C1AP3652 | SWSS UPGRADES C1 Advd Perpetual-Cat 3650 48Prt | 4 | \$1,050.00 | \$4,194.75 | | | 4,194.75 | 16,779.00 |
| YES | S3650UK9-37E | CAT3650 Universal k9 image | 4 | | | | | | |
| YES | PWR-C2-1025WAC | 1025W AC Config 2 Power Supply | 4 | | | | | | |
| YES | PWR-C2-1025WAC/2 | 1025W AC Config 2 Secondary Power Supply | 4 | \$1,450.00 | \$899.00 | (\$101.50) | (\$145.00) | 652.50 | 2,610.00 |
| YES | CAB-TA-NA | North America AC Type A Power Cable | 8 | | | | | | |
| YES | C3650-48-L-E | C3650-48 LAN Base to IP Services Paper RTU License | 4 | | | | | | |
| YES | C1-ISE-BASE-48P | Cisco ONE Identity Services Engine 50 EndPoint Base Lic | 4 | | | | | | |
| YES | C1-EGW-50-K9 | Cisco ONE EnergyWise Mgmt Perpetual Lic - 50 DO End Points | 4 | | | | | | |
| YES | C1-PI-LFAS-2K3K-K9 | Cisco ONE PI Device License for LF & AS for Cat 2k 3k | 4 | | | | | | |
| YES | C3650-STACK-KIT | Cisco Catalyst 3650 Stack Module | 4 | \$1,650.00 | \$1,023.00 | (\$115.50) | (\$165.00) | 742.50 | 2,970.00 |
| YES | STACK-T2-50CM | 50CM Type 2 Stacking Cable | 4 | | | | | | |
| YES | SFP-10G-LR= | 10GBASE-LR SFP Module | 2 | \$3,995.00 | \$2,476.90 | (\$279.65) | (\$399.50) | 1,797.75 | 3,595.50 |
| | | Corp Yard Warehouse | | | | | | | |
| YES | C1-WS3650-48FQ/K9 | Cisco One Catalyst 3650 48 Port Full PoE 4x10G Uplink | 2 | \$11,100.00 | \$6,882.00 | (\$777.00) | (\$1,110.00) | 4,995.00 | 9,990.00 |

| | | | | | | | | | |
|-----|--------------------|--|----|-------------|-------------|--------------|--------------|-----------|-----------|
| NO | CON-SNT-3648FQK9 | SMARTNET 8X5XNBD C1 Cat 3650 48 Port Full PoE 4x10GUplink | 2 | \$666.00 | \$2,660.67 | | | 2,660.67 | 5,321.34 |
| YES | C1FPCAT36502K9 | Cisco One Foundation Perpetual - Catalyst 3650 48-port | 2 | \$2,120.00 | \$1,314.40 | (\$148.40) | (\$212.00) | 954.00 | 1,908.00 |
| NO | CON-ECMU-C1FC3652 | SWSS UPGRADES C1 FND Perpetual-Catalyst 3650 48-port | 2 | \$318.00 | \$1,270.41 | | | 1,270.41 | 2,540.82 |
| YES | C1APCAT36502K9 | Cisco One Advanced Perpetual - Catalyst 3650 48-port | 2 | \$7,000.00 | \$4,340.00 | (\$490.00) | (\$700.00) | 3,150.00 | 6,300.00 |
| NO | CON-ECMU-C1AP3652 | SWSS UPGRADES C1 Advd Perpetual-Cat 3650 48Prt | 2 | \$1,050.00 | \$4,194.75 | | | 4,194.75 | 8,389.50 |
| YES | S3650UK9-37E | CAT3650 Universal k9 image | 2 | | | | | | |
| YES | PWR-C2-1025WAC | 1025W AC Config 2 Power Supply | 2 | | | | | | |
| YES | PWR-C2-1025WAC/2 | 1025W AC Config 2 Secondary Power Supply | 2 | \$1,450.00 | \$899.00 | (\$101.50) | (\$145.00) | 652.50 | 1,305.00 |
| YES | CAB-TA-NA | North America AC Type A Power Cable | 4 | | | | | | |
| YES | C3650-48-L-E | C3650-48 LAN Base to IP Services Paper RTU License | 2 | | | | | | |
| YES | C1-ISE-BASE-48P | Cisco ONE Identity Services Engine 50 EndPoint Base Lic | 2 | | | | | | |
| YES | C1-EGW-50-K9 | Cisco ONE EnergyWise Mgmt Perpetual Lic - 50 DO End Points | 2 | | | | | | |
| YES | C1-PI-LFAS-2K3K-K9 | Cisco ONE PI Device License for LF & AS for Cat 2k 3k | 2 | | | | | | |
| YES | C3650-STACK-KIT | Cisco Catalyst 3650 Stack Module | 2 | \$1,650.00 | \$1,023.00 | (\$115.50) | (\$165.00) | 742.50 | 1,485.00 |
| YES | STACK-T2-50CM | 50CM Type 2 Stacking Cable | 2 | | | | | | |
| YES | SFP-10G-LR= | 10GBASE-LR SFP Module | 1 | \$3,995.00 | \$2,476.90 | (\$279.65) | (\$399.50) | 1,797.75 | 1,797.75 |
| | | Astound 5K | | | | | | | |
| YES | C1-N5K-C5672UP | Cisco OneNexus5672UP 1RU 32x10G SFP+ 16pxUP SFP+ 6x40G QSFP+ | 2 | \$32,000.00 | \$19,840.00 | (\$2,240.00) | (\$3,200.00) | 14,400.00 | 28,800.00 |
| NO | CON-SNT-KC5672UP | SMARTNET 8X5XNBD CA Nexus5672UP 1RU32x10G SFP+16pxUPSFP | 2 | \$1,316.00 | \$5,257.42 | | | 5,257.42 | 10,514.84 |
| YES | N5672-ACC-KIT | Nexus 5672 Chassis Accessory Kit | 2 | | | | | | |
| YES | QSFP-H40G-CU3M | 40GBASE-CR4 Passive Copper Cable 3m | 4 | \$250.00 | \$155.00 | (\$17.50) | (\$25.00) | 112.50 | 450.00 |
| YES | QSFP-4SFP10G-CU5M | QSFP to 4xSFP10G Passive Copper Splitter Cable 5m | 4 | \$675.00 | \$418.50 | (\$47.25) | (\$67.50) | 303.75 | 1,215.00 |
| YES | GLC-T | 1000BASE-T SFP | 4 | \$395.00 | \$244.90 | (\$27.65) | (\$39.50) | 177.75 | 711.00 |
| YES | DS-SFP-FC8G-SW | 8 Gbps Fibre Channel SW SFP+ LC | 20 | \$260.00 | \$161.20 | (\$18.20) | (\$26.00) | 117.00 | 2,340.00 |
| YES | SFP-10G-LR | 10GBASE-LR SFP Module | 2 | \$3,995.00 | \$2,476.90 | (\$279.65) | (\$399.50) | 1,797.75 | 3,595.50 |
| YES | SFP-10G-SR | 10GBASE-SR SFP Module | 8 | \$995.00 | \$616.90 | (\$69.65) | (\$99.50) | 447.75 | 3,582.00 |
| YES | SFP-H10GB-CU1M | 10GBASE-CU SFP+ Cable 1 Meter | 4 | \$100.00 | \$62.00 | (\$7.00) | (\$10.00) | 45.00 | 180.00 |
| YES | CAB-9K12A-NA | Power Cord 125VAC 13A NEMA 5-15 Plug North America | 4 | | | | | | |
| YES | N6KUK9-703N1.1 | Nexus 5600/6000 Base OS Software Rel 7.0(3)N1(1) | 2 | | | | | | |
| YES | NXA-PAC-1100W | Nexus 1100W Platinum PS Port side Exhaust airflow | 4 | | | | | | |
| YES | N6K-C6001-FAN-F | Nexus 6001 Fan for Port Side exhaust (Front to Back) airflow | 6 | | | | | | |
| YES | C1F1PNEX56721K9 | Cisco One Nexus 5672 Foundation Perpetual License | 2 | \$20,000.00 | \$12,400.00 | (\$1,400.00) | (\$2,000.00) | 9,000.00 | 18,000.00 |
| NO | CON-ECMU-CFX56721 | SWSS UPGRADES C1 Nexus 5672 Foundation Perpetual Lic | 2 | \$3,000.00 | \$11,985.00 | | | 11,985.00 | 23,970.00 |
| YES | N5672-72P-SSK9 | Nexus 5672 Chassis Storage License | 2 | | | | | | |
| YES | N56-LAN1K9 | Nexus 5600 Series LAN Enterprise License | 2 | | | | | | |
| YES | N56-FNPV-SSK9 | Nexus 5600 FNPV License | 2 | | | | | | |
| YES | N5672-EL2-SSK9 | Nexus 5672 Enhanced Layer 2 License | 2 | | | | | | |
| YES | N56-BAS1K9 | Nexus 5600 Series LAN Base License | 2 | | | | | | |
| YES | N56-VMFEX9 | Nexus 5600 VM-FEX license | 2 | | | | | | |
| YES | C1-EGW-DC-K9 | Cisco ONE EnergyWise Mgmt Perpetual Lic - 1 DC End Point | 2 | | | | | | |
| YES | C1-PI-LFAS-N5K-K9 | Cisco ONE PI Device License for LF & AS for Nexus 5K | 2 | | | | | | |
| YES | C1-DCL-N5K-K9 | Cisco ONE DCNM for LAN Advanced Edt. for Nexus 5000 | 2 | | | | | | |
| YES | C1-DCS-N5K-K9 | Cisco ONE DCNM for SAN License for Nexus 5000 | 2 | | | | | | |
| | | ISE | | | | | | | |
| NO | R-ISE-VM-M-K9= | Cisco Identity Services Engine Migration VM (eDelivery) | 2 | \$3,990.00 | \$2,473.80 | (\$279.30) | (\$399.00) | 1,795.50 | 3,591.00 |
| NO | CON-SAU-ISEVM | SW APP SUPP + UPGR Cisco Identity Services Engine Virtual M | 2 | \$1,198.00 | \$4,786.01 | | | 4,786.01 | 9,572.02 |
| NO | L-ISE-BSE-1500-M= | Cisco ISE 1500 EndPoint Base Migration License | 1 | \$3,750.00 | \$2,325.00 | (\$262.50) | (\$375.00) | 1,687.50 | 1,687.50 |
| | | Prime Infrastructure | | | | | | | |
| NO | R-PI2X-K9 | Cisco Prime Infrastructure 2.x | 1 | | | | | | |
| NO | CON-ECMU-PI2XK9B | SWSS UPGRADES NULL SKU-No line item services included | 1 | | | | | | |
| NO | L-PI2X-BASE | Prime Infrastructure 2.x Base License | 1 | \$95.00 | \$58.90 | (\$6.65) | (\$9.50) | 42.75 | 42.75 |
| NO | CON-ECMU-PI2XBASE | SWSS UPGRADES Prime Infrastructure 2.x Base License | 1 | \$19.00 | \$75.91 | | | 75.91 | 75.91 |
| NO | R-PI22-SW-K9 | Prime Infrastructure 2.2 Software | 1 | \$25.00 | \$15.50 | (\$1.75) | (\$2.50) | 11.25 | 11.25 |
| NO | CON-ECMU-P122SW | SWSS UPGRADES Prime Infrastructure 2.2 Software | 1 | \$5.00 | \$19.98 | | | 19.98 | 19.98 |
| | | Spare Cables | | | | | | | |

| | | | | | | | | | |
|-----|--------------------|---|-------|-------------|-------------|--------------|--------------|-----------|-----------|
| YES | SFP-10G-AOC7M= | 10GBASE Active Optical SFP+ Cable 7M | 6 | \$260.00 | \$161.20 | (\$18.20) | (\$26.00) | 117.00 | 702.00 |
| YES | SFP-10G-AOC10M= | 10GBASE Active Optical SFP+ Cable 10M | 6 | \$260.00 | \$161.20 | (\$18.20) | (\$26.00) | 117.00 | 702.00 |
| YES | SFP-H10GB-CU3M= | 10GBASE-CU SFP+ Cable 3 Meter | 2 | \$100.00 | \$62.00 | (\$7.00) | (\$10.00) | 45.00 | 90.00 |
| | | PD 5K | | | | | | | |
| YES | C1-N5K-C5672UP | Cisco OneNexus5672UP 1RU 32x10G SFP+ 16pxUP SFP+ 6x40G QSFP+ | 2 | \$32,000.00 | \$19,840.00 | (\$2,240.00) | (\$3,200.00) | 14,400.00 | 28,800.00 |
| NO | CON-SNT-KC5672UP | SMARTNET 8X5XNBD CA Nexus5672UP 1RU32x10G SFP+16pxUPSFP | 2 | \$1,316.00 | \$5,257.42 | | | 5,257.42 | 10,514.84 |
| YES | N5672-ACC-KIT | Nexus 5672 Chassis Accessory Kit | 2 | | | | | | |
| YES | QSFP-H40G-CU3M | 40GBASE-CR4 Passive Copper Cable 3m | 4 | \$250.00 | \$155.00 | (\$17.50) | (\$25.00) | 112.50 | 450.00 |
| YES | QSFP-4SFP10G-CU5M | QSFP to 4xSFP10G Passive Copper Splitter Cable 5m | 4 | \$675.00 | \$418.50 | (\$47.25) | (\$67.50) | 303.75 | 1,215.00 |
| YES | GLC-T | 1000BASE-T SFP | 4 | \$395.00 | \$244.90 | (\$27.65) | (\$39.50) | 177.75 | 711.00 |
| YES | DS-SFP-FC8G-SW | 8 Gbps Fibre Channel SW SFP+ LC | 20 | \$260.00 | \$161.20 | (\$18.20) | (\$26.00) | 117.00 | 2,340.00 |
| YES | SFP-10G-LR | 10GBASE-LR SFP Module | 2 | \$3,995.00 | \$2,476.90 | (\$279.65) | (\$399.50) | 1,797.75 | 3,595.50 |
| YES | SFP-10G-SR | 10GBASE-SR SFP Module | 8 | \$995.00 | \$616.90 | (\$69.65) | (\$99.50) | 447.75 | 3,582.00 |
| YES | SFP-H10GB-CU1M | 10GBASE-CU SFP+ Cable 1 Meter | 4 | \$100.00 | \$62.00 | (\$7.00) | (\$10.00) | 45.00 | 180.00 |
| YES | CAB-9K12A-NA | Power Cord 125VAC 13A NEMA 5-15 Plug North America | 4 | | | | | | |
| YES | N6KUK9-703N1.1 | Nexus 5600/6000 Base OS Software Rel 7.0(3)N1(1) | 2 | | | | | | |
| YES | NXA-PAC-1100W | Nexus 1100W Platinum PS Port side Exhaust airflow | 4 | | | | | | |
| YES | N6K-C6001-FAN-F | Nexus 6001 Fan for Port Side exhaust (Front to Back) airflow | 6 | | | | | | |
| YES | C1F1PNE56721K9 | Cisco One Nexus 5672 Foundation Perpetual License | 2 | \$20,000.00 | \$12,400.00 | (\$1,400.00) | (\$2,000.00) | 9,000.00 | 18,000.00 |
| NO | CON-ECMU-CFX56721 | SWSS UPGRADES C1 Nexus 5672 Foundation Perpetual Lic | 2 | \$3,000.00 | \$11,985.00 | | | 11,985.00 | 23,970.00 |
| YES | N5672-72P-SSK9 | Nexus 5672 Chassis Storage License | 2 | | | | | | |
| YES | N56-LAN1K9 | Nexus 5600 Series LAN Enterprise License | 2 | | | | | | |
| YES | N56-FNPV-SSK9 | Nexus 5600 FNPV License | 2 | | | | | | |
| YES | N5672-EL2-SSK9 | Nexus 5672 Enhanced Layer 2 License | 2 | | | | | | |
| YES | N56-BAS1K9 | Nexus 5600 Series LAN Base License | 2 | | | | | | |
| YES | N56-VMFEX9 | Nexus 5600 VM-FEX license | 2 | | | | | | |
| YES | C1-EGW-DC-K9 | Cisco ONE EnergyWise Mgmt Perpetual Lic - 1 DC End Point | 2 | | | | | | |
| YES | C1-PI-LFAS-N5K-K9 | Cisco ONE PI Device License for LF & AS for Nexus 5K | 2 | | | | | | |
| YES | C1-DCL-N5K-K9 | Cisco ONE DCNM for LAN Advanced Edt. for Nexus 5000 | 2 | | | | | | |
| YES | C1-DCS-N5K-K9 | Cisco ONE DCNM for SAN License for Nexus 5000 | 2 | | | | | | |
| | | Security Upgrades | | | | | | | |
| YES | ASA5515-FPWR-K9 | ASA 5515-X with FirePOWER Services 6GE AC 3DES/AES SSD | 2 | \$5,295.00 | \$3,282.90 | (\$370.65) | (\$529.50) | 2,382.75 | 4,765.50 |
| NO | CON-SNT-A15FPK9 | SMARTNET 8X5XNBD ASA 5515-X with FirePOWER Services 6GE | 2 | \$671.00 | \$2,680.65 | | | 2,680.65 | 5,361.29 |
| YES | SF-FP5.3.1-K9 | Cisco FirePOWER Software v5.3.1 | 2 | | | | | | |
| YES | ASA5515-CTRL-LIC | Cisco ASA5515 Control License | 2 | | | | | | |
| YES | SF-ASA-X-9.2.2-K8 | ASA 9.2.2 Software image for ASA 5500-X Series5585-XASA-SM | 2 | | | | | | |
| YES | CAB-AC | AC Power Cord (North America) C13 NEMA 5-15P 2.1m | 2 | | | | | | |
| YES | ASA-VPN-CLNT-K9 | Cisco VPN Client Software (Windows Solaris Linux Mac) | 2 | | | | | | |
| YES | ASA-ANYCONN-CSD-K9 | ASA 5500 AnyConnect Client + Cisco Security Desktop Software | 2 | | | | | | |
| YES | ASA5500X-SSD120INC | ASA 5512-X through 5555-X 120GB MLC SED SSD (Incl.) | 2 | | | | | | |
| YES | ASA5500-ENCR-K9 | ASA 5500 Strong Encryption License (3DES/AES) | 2 | | | | | | |
| YES | ASA5515-MB | ^ASA 5515 IPS Part Number with which PCB Serial is associated | 2 | | | | | | |
| NO | L-AC-PLS-M-5YR-G | Cisco AnyConnect 5-Yr Plus Migration License Group | 1 | | | | | | |
| NO | AC-PLSM-5YR-100-S | Cisco AnyConnect 5-Yr 100 User Plus Migration License | 1 | | | | | | |
| NO | AC-PLS-M-5YR-100 | Cisco AnyConnect 5-Yr 100 User Plus Migration Subscription | 1 | \$125.00 | \$77.50 | (\$8.75) | (\$12.50) | 56.25 | 56.25 |
| NO | AC-PLSM-5YR-500-S | Cisco AnyConnect 5-Yr 500 User Plus Migration License | 1 | | | | | | |
| NO | AC-PLS-M-5YR-500 | Cisco AnyConnect 5-Yr 500 User Plus Migration Subscription | 1 | \$625.00 | \$387.50 | (\$43.75) | (\$62.50) | 281.25 | 281.25 |
| NO | L-AC-PLSM-S-5-100 | Cisco AnyConnect 5-Yr 100 User Plus Migration (ASA Key) | 99999 | | | | | | |
| NO | L-AC-PLSM-S-5-500 | Cisco AnyConnect 5-Yr 500 User Plus Migration (ASA Key) | 99999 | | | | | | |
| | | Campus Upgrade | | | | | | | |

