



New England Telehealth Consortium

Healthcare Connect Fund

Network Equipment

Request for Proposal

RFP-407 (Amendment)

Section 10 of NETC-RFP407 Amended

Amendment to NETC-RFP407

10. Sites and Equipment

- 10.1 New England Telehealth Consortium is seeking network equipment at the following locations:

**New England Telehealth
Consortium**
41 Pleasant Street
Bangor, ME 04401
HCP# 17234

- 10.2 New England Telehealth Consortium seeks bids for equipment necessary to operate its WAN.
- 10.3 While the configuration details listed in this section are specific to a manufacturer's product set offering, New England Telehealth Consortium recognizes there are a number of equipment providers that may offer equivalent equipment. The specifications herein do not indicate any preference for a given manufacturer. Therefore, all proposals will receive equal treatment and a fair evaluation regardless of manufacturer, brand, or product name.
- 10.4 **176 x ISR4331s for NETC Sites:**
New England Telehealth Consortium will be replacing edge routers that are approaching end of support and requests pricing for acquisition of the following equipment for its sites throughout New England. NETC will purchase **up to 176** routers configured as follows (or equivalent) over a three-year period:
- 10.4.1 **Qty 1**- ISR4331/K9 - Cisco ISR 4331 (3GE,2NIM,1SM,4G FLASH,4G DRAM, IPB) (or equivalent)
 - 10.4.2 **Qty 1** - CON-SNTP-ISR4331K - SNTC-24X7X4 Cisco ISR 4331 (Please provide pricing for 1, 2, 3, 4 and 5-year contracts) (or equivalent)
 - 10.4.3 **Qty 1** - SL-4330-SECNPE-K9 - SEC No Payload Encryption License for Cisco ISR 4330 Series (or equivalent)
 - 10.4.4 **Qty 1** - SL-4330-APP-K9 - AppX License for Cisco ISR 4330 Series (or equivalent)
 - 10.4.5 **Qty 1** - SL-4330-IPB-K9 - IP Base License for Cisco ISR 4330 Series (or equivalent)
 - 10.4.6 **Qty 1** - MEM-4300-4GU8G - 4G to 8G DRAM Upgrade (4G+4G) for Cisco ISR 4330,4350 (or equivalent)
 - 10.4.7 **Qty 1** - MEM-FLSH-4U8G - 4G to 8G eUSB Flash Memory Upgrade for Cisco ISR 4300 (or equivalent)
 - 10.4.8 **Qty 1** - PWR-4330-AC - AC Power Supply for Cisco ISR 4330
 - 10.4.9 **Qty 1** - CAB-AC - AC Power Cord (North America), C13, NEMA 5-15P, 2.1m (or equivalent)
 - 10.4.10 **Qty 1** - ISRWAAS-RTU-750 - ISRWAAS 750 conns RTU for ISR4300 series (or equivalent)
 - 10.4.11 **Qty 1** - CON-ECMUS-ISRW750 - SOLN SUPP SWSS ISRWAAS 750 conns RT (or equivalent)
 - 10.4.12 **Qty 1** - VWAAS-RTU-1300 - VWAAS 1300 conns RTU for UCS-E on single ISR only (or equivalent)

- 10.4.13 **Qty 1** - CON-ECMUS-VWS1300 - SOLN SUPP SWSS VWAAS 1300 conns RTU for UCS-E on single (or equivalent)
- 10.4.14 **Qty 2** - NIM-BLANK - Blank faceplate for NIM slot on Cisco ISR 4400 (or equivalent)
- 10.4.15 **Qty 1** - SM-S-BLANK - Removable faceplate for SM slot on Cisco 2900,3900,4400 ISR (or equivalent)
- 10.4.16 **Qty 1** - SISR4300NPEK9-168 - Cisco ISR 4300 Series IOS XE Universal-No Payload Encryption (or equivalent)
- 10.5 **FL-4330-BOOST-K9 and FL-4330-PERF-K9**
New England Telehealth Consortium may require boost or performance licenses for **up to 212 ISR 4331s (or equivalent)**. Please provide pricing for the following licenses (or equivalent)
 - 10.5.1 **Qty 1** - FL-4330-PERF-K9 - Performance on Demand License for 4330 Series (or equivalent)
 - 10.5.2 **Qty 1** - FL-4330-BOOST-K9 - Booster Performance License for 4330 Series (or equivalent)
- 10.6 **48 x ISR4431 for NETC Sites:**
New England Telehealth Consortium will be replacing edge routers that are approaching end of support and requests pricing for acquisition of the following equipment for its sites throughout New England. NETC will purchase **up to 48** routers configured as follows (or equivalent) over a three-year period:
 - 10.6.1 **Qty 1** - ISR4431/K9 Cisco ISR 4431 (4GE,3NIM,8G FLASH,4G DRAM,IPB) (or equivalent)
 - 10.6.2 **Qty 1** - CON-SNTP-ISR4431K SNTC-24X7X4 Cisco ISR 4431 (Please provide pricing for 1, 2, 3, 4 and 5-year contracts) (or equivalent)
 - 10.6.3 **Qty 1** - SL-44-IPB-K9 IP Base License for Cisco ISR 4400 Series (or equivalent)
 - 10.6.4 **Qty 1** - SL-44-APP-K9 AppX License for Cisco ISR 4400 Series (or equivalent)
 - 10.6.5 **Qty 1** - MEM-4400-4GU8G 4G to 8G DRAM Upgrade (4G+4G) for Cisco ISR 4400 (or equivalent)
 - 10.6.6 **Qty 1** - MEMUSB-1024FT 1GB USB Flash Token (or equivalent)
 - 10.6.7 **Qty 1** - PWR-4430-AC AC Power Supply for Cisco ISR 4430 (or equivalent)
 - 10.6.8 **Qty 1** - PWR-4430-AC/2 AC Power Supply (Secondary PS) for Cisco ISR 4430 (or equivalent)
 - 10.6.9 **Qty 2** - CAB-AC AC Power Cord (North America), C13, NEMA 5-15P, 2.1m (or equivalent)
 - 10.6.10 **Qty 1** - WAAS-RTU-1300 WAAS and VWAAS Right to Use for 1300 connections (or equivalent)
 - 10.6.11 **Qty 1** - CON-ECMUS-WS1300 - SOLN SUPP SWSS WAAS and VWAAS Right to Use for 1300 con (or equivalent)
 - 10.6.12 **Qty 1** - MEM-FLSH-8G 8G eUSB Flash Memory for Cisco ISR 4430 (or equivalent)
 - 10.6.13 **Qty 1** - ISRWAAS-RTU-1300 ISRWAAS RTU for 1300 connections (or equivalent)
 - 10.6.14 **Qty 1** - CON-SSSNT-IW1300 - SOLN SUPP 8X5XNBD ISRWAAS RTU for 1300 connections (or equivalent)

- 10.6.15 **Qty 1** - MEM-4400-DP-2G 2G DRAM (1 DIMM) for Cisco ISR 4400 Data Plane (or equivalent)
- 10.6.16 **Qty 3** - NIM-BLANK Blank faceplate for NIM slot on Cisco ISR 4400 (or equivalent)
- 10.6.17 SISR4400NPEK9-168 Cisco ISR 4400 Series IOS XE Universal-No Payload Encryption (or equivalent)
- 10.7 **FL-4430-BOOST-K9 and FL-44-PERF-K9**
New England Telehealth Consortium may require boost or performance licenses for **up to 48 ISR 4431s (or equivalent)**. Please provide pricing for the following licenses (or equivalent)
 - 10.7.1 **Qty 1** - FL-4430-BOOST-K9 Booster Performance License for 4430 Series (or equivalent)
 - 10.7.2 **Qty 1** - FL-44-PERF-K9 - Performance on Demand License for 4400 Series (or equivalent)
- 10.8 **94 x ISR4461 for NETC Sites:**
New England Telehealth Consortium will be replacing edge routers that are approaching end of support and requests pricing for acquisition of the following equipment for its sites throughout New England. NETC will purchase **up to 94** routers configured as follows (or equivalent) over a three-year period:
 - 10.8.1 **Qty 1** - ISR4461/K9 Cisco ISR 4461 (2x10GE+4x1GE,3NIM,3SM,8G FLASH,4G DRAM) (or equivalent)
 - 10.8.2 **Qty 1** - CON-SNTP-ISR44619 SNTC-24X7X4 Cisco ISR 4461 (Please provide pricing for 1, 2, 3, 4 and 5-year contracts) (or equivalent)
 - 10.8.3 **Qty 1** - SL-44-IPB-K9 IP Base License for Cisco ISR 4400 Series (or equivalent)
 - 10.8.4 **Qty 1** - SL-44-SECNPE-K9 SEC No Payload Encryption License for Cisco ISR 4400 Series (or equivalent)
 - 10.8.5 **Qty 1** - SL-44-APP-K9 AppX License for Cisco ISR 4400 Series (or equivalent)
 - 10.8.6 **Qty 1** - PWR-4460-650-AC 650W AC Power Supply for Cisco ISR 4461 (or equivalent)
 - 10.8.7 **Qty 1** - PWR-4460-650-AC2 Redundant 650W AC Power Supply for Cisco ISR 446 (or equivalent)
 - 10.8.8 **Qty 2** - CAB-AC AC Power Cord (North America), C13, NEMA 5-15P, 2.1m (or equivalent)
 - 10.8.9 **Qty 1** - WAAS-RTU-2500 WAAS and VWAAS Right to Use for
 - 10.8.10 CON-ECMUS-WS2500 SOLN SUPP SWSS WAAS and VWAAS Right to Use for 2500 con (or equivalent)
 - 10.8.11 **Qty 1** - ACS-4460-FANASSY Cisco ISR 4460 Fan Assembly (or equivalent)
 - 10.8.12 **Qty 1** - SM-F-BLANK Fixed faceplate for SM slot on Cisco 4461 ISR (or equivalent)
 - 10.8.13 **Qty 1** - MEM-4460-DP-4G 4G DRAM for Cisco ISR 4460 Data Plane (or equivalent)
 - 10.8.14 **Qty 2** - POE-COVER-4450 Cover for empty POE slot on Cisco ISR 4450 (or equivalent)
 - 10.8.15 **Qty 3** - NIM-BLANK Blank faceplate for NIM slot on Cisco ISR 440 (or equivalent)

- 10.8.16 **Qty 2** - SM-S-BLANK Removable faceplate for SM slot on Cisco 2900,3900,4400 ISR (or equivalent)
- 10.8.17 **Qty 1** - SISR4400V2NPEK9169 Cisco ISR 4400 Series IOS XE Universal-No Payload Encryption (or equivalent)
- 10.8.18 **Qty 1** - MEM-4460-8G 8G DRAM (1 DIMM) for Cisco ISR 4460 (or equivalent)
- 10.8.19 **Qty 1** - MEM-FLSH-8GU16G 8G to 16G Flash Memory Upgrade for Cisco ISR 4400(or equivalent)
- 10.9 **FL-4460-BOOST-K9 and FL-4460-PERF-K9**
New England Telehealth Consortium may require boost or performance licenses for **up to 94 ISR 4431s (or equivalent)**. Please provide pricing for the following licenses (or equivalent)
 - 10.9.1 **Qty 1** - FL-4460-BOOST-K9 Booster Performance License for 4460 Series (or equivalent)
 - 10.9.2 **Qty 1** - FL-4460-PERF-K9 Performance on Demand License for 4460 Series (or equivalent)
- 10.10 **22 x ASR1001X for NETC Core and Sites:**
New England Telehealth Consortium will be replacing edge routers that are approaching end of support and requests pricing for acquisition of the following equipment for its sites throughout New England. NETC will purchase **up to 22** routers configured as follows (or equivalent) over a three-year period:
 - 10.10.1 **Qty 1** - ASR1001X-20G-K9 ASR1001-X, 20G Base Bundle, K9, AES, Built-in 6x1G, 2x10G (or equivalent)
 - 10.10.2 **Qty 1** - SLASR1-AES Cisco ASR 1000 Advanced Enterprise Services License (or equivalent)
 - 10.10.3 **Qty 1** - CON-SNTP-SLASR1AM SNTC-24X7X4 Cisco ASR 1000 Advanced Enterprise Services (Please provide pricing for 1, 2, 3, 4 and 5-year contracts) (or equivalent)
 - 10.10.4 **Qty 1** - ASR1K-INTERNET ASR1K-Int Edge/Peering incl. BGP/NAT/ZBFW - tracking only (or equivalent)
 - 10.10.5 **Qty 2** - SFP-10G-SR 10GBASE-SR SFP Module (or equivalent)
 - 10.10.6 **Qty 1** - M-ASR1001X-8GB Cisco ASR1001-X 8GB DRAM (or equivalent)
 - 10.10.7 **Qty 1** - FLSA1-BIN-2X10GE-P ASR1001-X Built-In 10GE 2-port License (or equivalent)
 - 10.10.8 **Qty 2** - ASR1001-X-PWR-AC Cisco ASR1001-X AC Power Supply (or equivalent)
 - 10.10.9 **Qty 2** - CAB-AC AC Power Cord (North America), C13, NEMA 5-15P, 2.1m (or equivalent)
 - 10.10.10 **Qty 1** - SASR1K1XUK9-169 Cisco ASR1001-X IOS XE UNIVERSAL (or equivalent)
 - 10.10.11 **Qty 1** - SPA-1X10GE-L-V2 Cisco 1-Port 10GE LAN-PHY Shared Port Adapter (or equivalent)
 - 10.10.12 **Qty 1** - CON-SNTP-1X10GEV2 SNTC-24X7X4 1-Pt 10GE LAN-PHY Shared PT Adptr (Please provide pricing for 1, 2, 3, 4 and 5-year contracts) (or equivalent)
 - 10.10.13 **Qty 1** - XFP-10G-MM-SR 10GBASE-SR XFP Module (or equivalent)
 - 10.10.14 **Qty 1** - CON-SNTP-XFP10GMM SNTC-24X7X4 10GBASE-SR XFP Module (Please provide pricing for 1, 2, 3, 4 and 5-year contracts) (or equivalent)

- 10.10.15 **Qty 1** - ASR1000-SPA SPA for ASR1000; No Physical Part; For Tracking Only (or equivalent)
- 10.10.16 **Qty 1** - FLSA1-1X-2.5-20G 2.5G to 20Gbps upgrade License for ASR 1001-X, Built-in 2x10 (or equivalent)
- 10.10.17 **Qty 1** - CON-SNTP-FLSA11XW SNTC-24X7X4 Upgrade from 2.5 Gbps to 20Gbps License (or equivalent)
- 10.10.18 **Qty 1** - CON-SNTP-ASR20GK9 SNTC-24X7X4 ASR1001-X, 20G Base Bundle, K9, AES, Bui (or equivalent)
- 10.11 **337 x NCS 520 for NETC Sites:**
 New England Telehealth Consortium will be adding network demarcation devices and requests pricing for acquisition of the following equipment for its sites throughout New England. NETC will purchase **up to 337** demarcation devices configured as follows (or equivalent) over a three-year period:
 - 10.11.1 **Qty 1** - N520-4G4Z-A Cisco NCS 520 - 4xGE + 4x10GE, Commercial Temp (or equivalent)
 - 10.11.2 **Qty 1** - SP-AR3-G4Z0NA52 SP AR HW 24X7X4 Cisco NCS 520 - 4xGE + 4x10GE, Commercial (Please provide pricing for 1, 2, 3, 4 and 5-year contracts) (or equivalent)
 - 10.11.3 **Qty 1** - CAB-AC-US Power Cord - US, 15A,125V,2500mm,-40C to +85C (or equivalent)
 - 10.11.4 **Qty 1** - N520-RCKMT-19-D2A NCS 520 19" Rackmount for 8 Port, AC (or equivalent)
 - 10.11.5 **Qty 1** - SNCS520NK91611 UNIVERSAL - NO PAYLOAD ENCRYPTION (or equivalent)
 - 10.11.6 **Qty 1** - N520-S-I Cisco NCS 520 Series IP Access License (or equivalent)
 - 10.11.7 **Qty 1** - SP-ECMU-N520SI01 SP SWSS UPGRADES Cisco NCS 520 Series IP Access License (or equivalent)
 - 10.11.8 **Qty 1** - N520-WALLMT NCS 520 Wall Mount (or equivalent)
 - 10.11.9 **Qty 1** - N520-10G-2 Cisco NCS 520 Series 2-Port 10G Upgrade License (or equivalent)
 - 10.11.10 **Qty 1** - SP-ECMU-N5G12050 SP SWSS UPGRADES Cisco NCS 520 Series 2-Port 10G Upgrade Lic (or equivalent)
- 10.12 **40 x MX-84 for NETC Sites:**
 New England Telehealth Consortium will be adding Security & SD-WAN appliances to support additional diverse connections and requests pricing for acquisition of the following equipment for its sites throughout New England. NETC will purchase **up to 12** Security & SD-WAN appliances configured as follows (or equivalent) over a three-year period:
 - 10.12.1 **Qty 1** - MX84-HW Meraki MX84 Router/Security Appliance (or equivalent)
 - 10.12.2 **Qty 1** - LIC-MX84-ENT-5YR Meraki MX84 Enterprise License and Support, 5YR(or equivalent)
- 10.13 **15 x MX-100 for NETC Sites:**
 New England Telehealth Consortium will be adding Security & SD-WAN appliances to support additional diverse connections and requests pricing for acquisition of the following equipment for its sites throughout New England. NETC will purchase **up to 5** Security & SD-WAN appliances configured as follows (or equivalent) over a three-year period:

- 10.13.1 **Qty 1** - MX100-HW Meraki MX100 Router/Security Appliance (or equivalent)
- 10.13.2 **Qty 1** - LIC-MX100-ENT-5YR Meraki MX100 Enterprise License and Support, 5YR (or equivalent)
- 10.14 **10 x MX-250 for NETC Sites:**
New England Telehealth Consortium will be adding Security & SD-WAN appliances to support additional diverse connections and requests pricing for acquisition of the following equipment for its sites throughout New England. NETC will purchase **up to 2** Security & SD-WAN appliances configured as follows (or equivalent) over a three-year period:
 - 10.14.1 **Qty 1** - MX250-HW Meraki MX250 Router/Security Appliance (or equivalent)
 - 10.14.2 **Qty 1** - LIC-MX250-ENT-5YR Meraki MX250 Enterprise License and Support, 5YR (or equivalent)
- 10.15 **5 x MX-450 for NETC Sites:**
New England Telehealth Consortium will be adding Security & SD-WAN appliances to support additional diverse connections and requests pricing for acquisition of the following equipment for its sites throughout New England. NETC will purchase **up to 1** Security & SD-WAN appliances configured as follows (or equivalent) over a three-year period:
 - 10.15.1 **Qty 1** - MX450-HW Meraki MX450 Router/Security Appliance (or equivalent)
 - 10.15.2 **Qty 1** - LIC-MX450-ENT-5YR Meraki MX450 Enterprise License and Support, 5YR (or equivalent)
- 10.16 **2 x Cisco Firepower 1150 (or Equivalent) for NETC's Bangor Core:**
NETC will replace its current network security appliances and seeks pricing for **acquisition of 2** Cisco Firepower 1150's (or equivalent) configured for high availability as follows:
 - 10.16.1 **Qty 1** - FPR1150-NGFW-K9 Cisco Firepower 1150 NGFW Appliance, 1U (or equivalent)
 - 10.16.2 **Qty 1** - CON-SSSNT-FPR1150N SOLN SUPP 8X5XNBD Cisco Firepower 1150 NGFW Appliance, 1U (Please provide pricing for 1, 2, 3, 4 and 5-year contracts) (or equivalent)
 - 10.16.2.1 Please provide additional pricing for 24x7 by 4 hours
 - 10.16.3 **Qty 1** - FPR1150T-TMC Cisco FPR1150 Threat Defense Threat, Malware and URL License (or equivalent)
 - 10.16.4 **Qty 1** - L-FPR1150T-TMC-3Y Cisco FPR1150 Threat Defense Threat, Malware and URL 3Y Subs (or equivalent)
 - 10.16.5 **Qty 1** - CAB-AC AC Power Cord (North America), C13, NEMA 5-15P, 2.1m (or equivalent)
 - 10.16.6 **Qty 1** - SF-F1K-TD6.5-K9 Cisco Firepower Threat Defense software v6.5 for FPR1000 (or equivalent)
 - 10.16.7 **Qty 1** - FPR1K-RM-SSD200- Cisco Firepower 1K Series 200GB for FPR-1120/1140 (or equivalent)
 - 10.16.8 **Qty 1** - FPR1K-RM-ACY-KIT Cisco Firepower 1K Series Accessory Kit for FPR-1120/1140 (or equivalent)
 - 10.16.9 **Qty 1** - FPR1000-ASA Cisco Firepower 1000 Standard ASA License (or equivalent)

- 10.16.10 **Qty 1** - SFP-10G-SR 10GBASE-SR SFP Module (or equivalent)
- 10.17 **1 x Cisco Firepower 1010 (or Equivalent) for NETC's Lebanon Core:**
NETC will replace its current network security appliances and seeks pricing for **acquisition of 1** Cisco Firepower 1010 (or equivalent) configured as follows:
 - 10.17.1 **Qty 1** - FPR1010-NGFW-K9 - Cisco Firepower 1010 NGFW Appliance, Desktop (or equivalent)
 - 10.17.2 **Qty 1** - CON-SSSNT-FPR1010N SOLN SUPP 8X5XNBD Cisco Firepower 1010 NGFW Appliance, Des (or equivalent)
 - 10.17.2.1 Please provide additional pricing for 24x7 by 4 hours
 - 10.17.3 **Qty 1** - FPR1010T-TMC Cisco FPR1010 Threat Defense Threat, Malware and URL License (or equivalent)
 - 10.17.4 **Qty 1** - L-FPR1010T-TMC-5Y Cisco FPR1010 Threat Defense Threat, Malware and URL 5Y Subs (or equivalent)
 - 10.17.5 **Qty 1** - FPR1K-DT-PWR-AC Cisco Firepower 1K Series 150W Power Adapter for FPR-1010(or equivalent)
 - 10.17.6 **Qty 1** - CAB-AC-C5 AC Power Cord, Type C5, US, Canada (or equivalent)
 - 10.17.7 **Qty 1** - SF-F1K-TD6.4-K9 Cisco Firepower Threat Defense software v6.4 for FPR1100(or equivalent)
 - 10.17.8 **Qty 1** - FPR1K-DT-ACY-KIT Cisco Firepower 1K Series Accessory Kit for FPR-1010(or equivalent)
 - 10.17.9 **Qty 1** - FPR1000-ASA Cisco Firepower 1000 Standard ASA License (or equivalent)
- 10.18 **50 x WWAN NIMs**
New England Telehealth Consortium will be adding WWAN NIMs to support additional diverse connections and requests pricing for acquisition of the following equipment for its sites throughout New England. NETC will purchase **up to 50** WWAN NIMs as follows (or equivalent) over a three-year period:
 - 10.18.1 NIM-4G-LTE-VZ - Cisco LTE 2.0 NIM (or equivalent)
- 10.19 **4 x UCSC-C220-M5SX**
New England Telehealth Consortium will be replacing servers that support network management and requests pricing for acquisition of the following equipment for its sites throughout New England. NETC will purchase servers as follows (or equivalent) over a three-year period:
 - 10.19.1 **Qty 1** - UCSC-C220-M5SX - UCS C220 M5 SFF 10 HD w/o CPU, mem, HD, PCIe, PSU (or equivalent)
 - 10.19.2 **Qty 1** - CON-SNT-C220M5SX - SNTC 8X5XNBD UCS C220 M5 SFF 10 HD w/o CPU, mem, HD, PCIe, P (or equivalent)
 - 10.19.3 **Qty 2** - UCS-MR-X16G1RS-H - 16GB DDR4-2666-MHz RDIMM/PC4-21300/single rank/x4/1.2v (or equivalent)
 - 10.19.4 **Qty 3** - UCS-HD12TB10K12N - 1.2 TB 12G SAS 10K RPM SFF HDD (or equivalent)
 - 10.19.5 **Qty 1** - UCSC-MLOM-IRJ45 - Intel i350 quad-port MLOM NIC (or equivalent)
 - 10.19.6 **Qty 2** - UCS-SD-32G-S - 32GB SD Card for UCS servers (or equivalent)
 - 10.19.7 **Qty 1** - CIMC-LATEST - IMC SW (Recommended) latest release for C-Series Servers. (or equivalent)
 - 10.19.8 **Qty 2** - UCSC-PSU1-770W - Cisco UCS 770W AC Power Supply for Rack Server (or equivalent)

- 10.19.9 **Qty 2** - CAB-9K12A-NA Power Cord, 125VAC 13A NEMA 5-15 Plug, North America (or equivalent)
- 10.19.10 **Qty 1** - UCS-MSD-32G 32GB Micro SD Card for UCS M5 servers (or equivalent)
- 10.19.11 **Qty 1** - UCSC-RAILB-M4 Ball Bearing Rail Kit for C220 & C240 M4 & M5 rack servers (or equivalent)
- 10.19.12 **Qty 1** - N20-BKVM KVM local IO cable for UCS servers console port (or equivalent)
- 10.19.13 **Qty 1** - UCS-MSTOR-SD Mini Storage Carrier for SD (holds up to 2) (or equivalent)
- 10.19.14 **Qty 7** - UCSC-BBLKD-S2 UCS C-Series M5 SFF drive blanking panel (or equivalent)
- 10.19.15 **Qty 2** - UCSC-HS-C220M5 Heat sink for UCS C220 M5 rack servers 150W CPUs & below (or equivalent)
- 10.19.16 **Qty 1** - CBL-SC-MR12GM52 Super Cap cable for UCSC-RAID-M5 on C240 M5 Servers (or equivalent)
- 10.19.17 **Qty 1** - UCSC-SCAP-M5 Super Cap for UCSC-RAID-M5, UCSC-MRAID1GB-KIT (or equivalent)
- 10.19.18 **Qty 2** - UCS-CPU-4110 2.1 GHz 4110/85W 8C/11MB Cache/DDR4 2400MHz (or equivalent)
- 10.19.19 **Qty 1** - UCSC-RAID-M5 Cisco 12G Modular RAID controller with 2GB cache (or equivalent)

10.20 4 x UCSC-C220-M5SX

New England Telehealth Consortium will be replacing servers that support network management and requests pricing for acquisition of the following equipment for its sites throughout New England. NETC will purchase servers as follows (or equivalent) over a three-year period:

- 10.20.1 **Qty 1** - UCSC-C220-M5SX UCS C220 M5 SFF 10 HD w/o CPU, mem, HD,PCIe, PSU(or equivalent)
- 10.20.2 **Qty 1** - CON-SNT-C220M5SX SNTC 8X5XNBD UCS C220 M5 SFF 10 HD w/o CPU, mem, HD, PCIe, P (or equivalent)
- 10.20.3 **Qty 2** - UCS-MR-X16G1RS-H 16GB DDR4-2666-MHz RDIMM/PC4 21300/single rank/x4/1.2v (or equivalent)
- 10.20.4 **Qty 1** - UCSC-MLOM-IRJ45 Intel i350 quad-port MLOM NIC (or equivalent)
- 10.20.5 **Qty 2** - UCS-SD-32G-S 32GB SD Card for UCS servers (or equivalent)
- 10.20.6 **Qty 1** - CIMC-LATEST IMC SW (Recommended) latest release for C-Series Servers. (or equivalent)
- 10.20.7 **Qty 2** - UCSC-PSU1-770W Cisco UCS 770W AC Power Supply for Rack Server (or equivalent)
- 10.20.8 **Qty 2** - CAB-9K12A-NA Power Cord, 125VAC 13A NEMA 5-15 Plug, North America (or equivalent)
- 10.20.9 **Qty 1** - UCS-MSD-32G 32GB Micro SD Card for UCS M5 servers (or equivalent)
- 10.20.10 **Qty 1** - UCSC-RAILB-M4 Ball Bearing Rail Kit for C220 & C240 M4 & M5 rack servers (or equivalent)
- 10.20.11 **Qty 1** - N20-BKVM KVM local IO cable for UCS servers console port (or equivalent)
- 10.20.12 **Qty 1** - UCS-MSTOR-SD Mini Storage Carrier for SD (holds up to 2) (or equivalent)

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- 10.20.13 **Qty 7** - UCSC-BBLKD-S2 UCS C-Series M5 SFF drive blanking panel (or equivalent)
- 10.20.14 **Qty 2** - UCSC-HS-C220M5 Heat sink for UCS C220 M5 rack servers 150W CPUs & below (or equivalent)
- 10.20.15 **Qty 1** - CBL-SC-MR12GM52 Super Cap cable for UCSC-RAID-M5 on C240 M5 Servers (or equivalent)
- 10.20.16 **Qty 1** - UCSC-SCAP-M5 Super Cap for UCSC-RAID-M5, UCSC-MRAID1GB-KIT (or equivalent)
- 10.20.17 **Qty 2** - UCS-CPU-4110 2.1 GHz 4110/85W 8C/11MB Cache/DDR4 2400MHz (or equivalent)
- 10.20.18 **Qty 1** - UCSC-RAID-M5 Cisco 12G Modular RAID controller with 2GB cache (or equivalent)
- 10.20.19 **Qty 3** - UCS-SD960G61X-EV 960GB 2.5 inch Enterprise Value 6G SATA SSD (or equivalent)