



NEW HAVEN PUBLIC SCHOOLS

## Operations Memorandum

**To:** New Haven Board of Education Finance and Operations Committee

**From:** Gilda Herrera

**Date:** 7/20/2023

**Re:** Total Communications LLC, Agreement

**Answer all questions** and have a representative ready to present the details of each question during the Finance & Operations meeting or this proposal may not be advanced for consideration by the full Board of Education.

Company Information			
Vendor Name:	Total Communications, LLC		
Doing Business as: (DBA)			
Vendor Address:	333 Burnham Street, E. Hartford CT 0608		
Vendor Contact Name:	Christopher Garlock		
Vendor Contact Email:	<a href="mailto:chrisgarlock@totalcomm.com">chrisgarlock@totalcomm.com</a>		
Is the contractor a minority or women owned small business?			No
Agreement/Contract Information			
New or Renewal Agreement/Contract?		Agreement	
Effective Dates: (mm/dd/yy) <small>Multi-yrs. require Board of Aldermen approval</small>	From	July 1, 2023	To June 30, 2024
Total Amount: <small>If Multi-yr. include yr. to yr. breakdown</small>	\$1,499,999.92		
Funding Source Name: Acct. #:	3C242463-58704 CAPITAL Information Technology Initiatives: COMPUTERS & TELECOMMUNICATIONS		
Contract #: <small>(Local or State)</small>	State Contract: 18psx0202AB-ST CONTRACT		



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**Key Questions:**

**1. What specific service will the contractor provide:**

Dual-Datacenter project will address the hardware/software/security needs to upgrade the Wide Area Network infrastructure to provide greater bandwidth, resiliency, security, and overall increased NHPS network stability as well addressing the coming end of life and end of support infrastructure currently in place with a new Cisco proven network design.

**2. How was the contractor selected?** \*Attach appropriate supporting documents

☐ Quotes

☐ Sealed Bid # \_\_\_\_\_

☐ Sole Source # \_\_\_\_\_

☐ RFP#

☒ State Contract #18psx0202AB-ST CONTRACT

☐ Exempt Professional

- ☐ Accountant
- ☐ Actuary
- ☐ Appraiser
- ☐ Architect
- ☐ Artist
- ☐ Dentist
- ☐ Engineer
- ☐ Expert Professional Consultant
- ☐ Land Surveyor
- ☐ Lawyer
- ☐ Physician/Medical Doctor

**3. If the vendor was selected through Solicitation (Bid/RFQ/RFP) process; answer the following:**

**a. Please explain how the vendor was chosen?** \*Attach Vendor Proposal

State Contract #18psx0202AB-ST CONTRACT

**b. Who were the members of the selection committee?**  
Edward Connelly, Gilda Herrera, Jamin Bulyk



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<b>Key Questions: - Continued</b>
<b>4. If this is a renewal with a current vendor, has the vendor has met all obligations under the existing agreement/contract?</b>
Yes, the district is satisfied with the services currently being provided by Total Communications, LLC
<b>5. If this agreement/contract is a Renewal, has the cost increase? If yes, by how much? <i>*Attach Renewal Letters</i></b>
N/A
<b>6. If this new agreement/contract, has cost for service increased from previous years? If yes, by how much?</b>
N/A
<b>7. Is this a service that existing staff could provide? Why or why not?</b>
No.



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## **Agreement/Contract Processing Checklist**

*To ensure timely processing of the submitted Agreement/Contract it is imperative to collect and provide all of the required documentation noted below and provide with submission to board.*

**Forms/Documents are available in: Drive G:\F&O Agenda Minutes\Agreement Contract Checklist\2022-2023**

<b>1. Has this vendor performed service(s) in prior fiscal years?</b>	
If Yes,	Vendor # <b>68060</b>
If No or New,	Vendor must provide completed W9
<b>2. A quote or proposal submitting regarding the agreement/contract.</b>	
If RFP	Attach Vendor Submitted
Other	Copy of State Contract, Quotes, etc.
<b>3. <u>Certificates of Liability Insurance (COI) are required for ALL agreements/contracts, read the following and select the applicable Rider.</u></b> <b>It is the submitters responsibility to request the COI from the vendor and attach with submission; the COI from the Vendor <u>must</u> match rider specifications outlined.</b> <b>Failure to obtain or incorrect COIs will be returned for revision and will delay its processing.</b>	
Rider 300	Professional Services – Onsite Umbrella; w/ Auto; w/ Workers Compensation
Rider 305	Professional Services – Onsite Umbrella; No Auto; No Workers Compensation
Rider 310	Professional Services – Onsite Umbrella; w/ Auto; No Workers Compensation
Rider 315	Professional Services – Onsite Umbrella; w/ Youth under 21
Rider 320	Professional Services – Offsite; No Auto; No Workers Compensation
Rider 325	Professional Services – Offsite; No Auto; No Workers Compensation; w/ Youth under 21
Rider 330	Professional Services – Offsite Attorney; No Auto; No Workers Compensation
Rider 335	Professional Services – Onsite; Physician/Dentist; No Auto
Rider 340	Professional Services – Onsite Physician/Dentist w/ Youth under 21
Rider 345	Professional Services – Onsite Temp Nurses
Rider 350	Professional Services – Cyber – Onsite



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Rider 355	Professional Services – Cyber – Offsite
<b>4. The City of New Haven requires the information requested in the <u>Disclosure Affidavit</u> before any City agency, department, or city official seeking agreement/contract shall obtain them, notarized.</b>	
Emailed Disclosures are acceptable.	



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## AGREEMENT COVER SHEET

Company name: Total Communications, LLC

Doing Business As, if applicable:

Contact Person: Christopher Garlock

Business Address: 333 Burnham Street, E. Hartford CT 06108

Business Phone: Direct: 860.622.4132, Fax: 860.290-5615, Service: 800.300-0824

Business email: [chrisgarlock@totalcomm.com](mailto:chrisgarlock@totalcomm.com)

Funding Source & Acct # including location code:

3C242463-58704 CAPITAL

Information Technology Initiatives: COMPUTERS & TELECOMMUNICATIONS

State Contract: 18psx0202AB-ST CONTRACT

Agreement Effective Dates: From 07/01/2023 To 6/30/2024

Total amount: \$1,499,999.92

### Description of Service:

Dual-Datacenter project will address the hardware/software/security needs to upgrade the Wide Area Network infrastructure to provide greater bandwidth, resiliency, security, and overall increased NHPS network stability as well addressing the coming end of life and end of support infrastructure currently in place with a new Cisco proven network design.

Submitted by: Gilda Herrera Phone: 475.220.1694



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**AGREEMENT**  
**By And Between**  
**The New Haven Board of Education**  
**AND**

***Total Communications, LLC***

FOR DEPARTMENT/PROGRAM:

***Information Technology***

This Agreement entered into on the 1 day of July 2023, effective (no sooner than the day after Board of Education Approval), the 31 day of July, 2023, by and between the New Haven Board of Education (herein referred to as the “Board” and, Total Communications, LLC. located at, 333 Burnham Street, East Hartford CT 061085 (herein referred to as the “Contractor”).

**Compensation:** The Board shall pay the contractor for satisfactory performance of services required the amount of \$ N/A per day, hour or session, for a total of days, hours or sessions.

**Total \$1,499,999.92**

The maximum amount the contractor shall be paid under this agreement: \$1,499,999.92. Compensation will be made upon submission of an itemized invoice which includes a detailed description of work performed and date of service.

**Fiscal support** for this Agreement shall be by **Program** of the New Haven Board of Education, **Account Number:** 3C242463 58704.

This agreement shall remain in effect from July 1, 2023 to June 30, 2024.

**SCOPE OF SERVICE:** Dual-Datacenter project will address the hardware/software/security needs to upgrade the Wide Area Network infrastructure to provide greater bandwidth, resiliency, security, and overall increased NHPS network stability as well addressing the coming end of life and end of support infrastructure currently in place with a new Cisco proven network design.

***Exhibit A and A2::***

*Total Communication Exhibit A\_Dual Datacenter\_23-24*

*Total Communication Equipment and Services \_Dual Datacenter 23-24\_Exhibit A2*

***Exhibit B: Student Data and Privacy Agreement: Yes***



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**APPROVAL:** This Agreement must be approved by the New Haven Board of Education ***prior to service start date***. Contractors may begin service no sooner than the day after Board of Education approval.

**HOLD HARMLESS:** The Contractor shall insure and/or indemnify the Board and its members, employees and agents against all claims, suits, and expenses, including reasonable attorney's fees, in connection with loss of life, bodily injury or property damage arising from any neglect act or omission of the Contractor or its employees or agents. Further, the Contractor covenants and agrees that it shall hold the Board and its members, employees and agents harmless against any and all claims, suits judgments of any description whatsoever caused by the Contractor' breach of this agreement or based upon the conduct of the Contractor, or its agents or its employees or arising out of in connection with their activities under this agreement.

**TERMINATION:** The Board may cancel this agreement for any reason upon thirty (30) days' written notice sent to the Contractor by certified U.S. mail, return receipt requested; provided however, that the Board shall be responsible to the Contractor for all services rendered by the Contractor through the last day of thirty (30) day notice period, as long as the Agreement was approved by the Board prior to the start date of service.

✓

Christopher Garlock

Contractor Signature

\_\_\_\_\_  
President  
New Haven Board of Education

7/26/23

\_\_\_\_\_  
Date

\_\_\_\_\_  
Date

Christopher Garlock NHPS Account Manager

\_\_\_\_\_  
Contractor Printed Name & Title

Revised: 8/2021





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## EXHIBIT B

### STUDENT DATA PRIVACY AGREEMENT SPECIAL TERMS AND CONDITIONS

For the purposes of this Exhibit B "directory information," "de-identified student information," "school purposes," "student information," "student records," "student-generated content," and "targeted advertising" shall be as defined by Conn. Gen. Stat. §10-234aa.

1. All student records, student information, and student-generated content (collectively, "student data") provided or accessed pursuant this Agreement or any other services agreement between the Parties are not the property of, or under the control of, the Contractor.
2. The Board shall have access to and the ability to delete student data in the possession of the Contractor except in instances where such data is (A) otherwise prohibited from deletion or required to be retained under state or federal law, or (B) stored as a copy as part of a disaster recovery storage system and that is (i) inaccessible to the public, and (ii) unable to be used in the normal course of business by the Contractor. The Board may request the deletion of any such student information, student records or student-generated content if such copy has been used by the operator to repopulate accessible data following a disaster recovery. The Board may request the deletion of student data by the contractor within two (2) business days of receiving such a request and provide to the Board confirmation via electronic mail that the student data has been deleted in accordance with the request, the date of its deletion, and the manner in which it has been deleted. The confirmation shall contain a written assurance from the Contractor that proper disposal of the data has occurred in order to prevent the unauthorized access or use of student data and that deletion has occurred in accordance with industry standards/practices/protocols.
3. The Contractor shall not use student data for any purposes other than those authorized pursuant to this Agreement.
4. A student, parent or legal guardian of a student may review personally identifiable information contained in student data and correct any erroneous information, if any, in such student data. If the Contractor receives a request to review student data in the Contractor's possession directly from a student, parent, or guardian, the Contractor agrees to refer that individual to the Board and to notify the Board within two (2) business days of receiving such a request. The Contractor agrees to work cooperatively with the Board to permit a student, parent, or guardian to review personally identifiable information in student data that has been shared with the Contractor, and correct any erroneous information therein.



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5. The Contractor shall take actions designed to ensure the security and confidentiality of student data.
6. The Contractor will notify the Board, in accordance with Conn. Gen. Stat. § 10-234dd, when there has been an unauthorized release, disclosure or acquisition of student data. Such notification will include the following steps:

Upon discovery by the Contractor of a breach of student data, the Contractor shall conduct an investigation and restore the integrity of its data systems and, without unreasonable delay, but not more than thirty (30) days after such discovery, shall provide the Board with a more detailed notice of the breach, including but not limited to the date and time of the breach; name(s) of the student(s) whose student data was released, disclosed or acquired; nature of and extent of the breach; and measures taken to ensure that such a breach does not occur in the future.

7. Student data shall not be retained or available to the Contractor upon expiration of the contract between the Contractor and Board, except a student, parent or legal guardian of a student may choose independently to establish or maintain an electronic account with the Contractor after the expiration of such contract for the purpose of storing student-generated content.
8. The Contractor and Board shall each ensure their own compliance with the Family Educational Rights and Privacy Act of 1974, 20 U.S.C. § 1232g, as amended from time to time.
9. The Contractor acknowledges and agrees to comply with the above and all other applicable aspects of Connecticut's Student Data Privacy law according to Connecticut General Statutes §§ 10-234aa through 10-234dd.
10. The Parties agree that this Agreement controls over any inconsistent terms or conditions contained within any other agreement entered into by the Parties concerning student data.



**New Haven Public Schools Dual  
Datacenter Executive Summary**

The New Haven Public School's (NHPS) recently awarded a bid RFP# 2023-01-1510) for Leased Fiber Wide Area Network (WAN) to provide greater bandwidth between sites. This Dual-Datacenter project will address the hardware/software/security needs to upgrade the Wide Area Network infrastructure to provide greater bandwidth, resiliency, security, and overall increased NHPS network stability as well addressing the coming end of life and end of support infrastructure currently in place with a new Cisco proven network design.

The Dual Data Center Project will address the replacement of end of life and soon coming end of support hardware and infrastructure. Within this project pricing, NHPS will be taking advantage of bundled Cisco product programs for the education markets allowing NHPS to cut their costs in half in conjunction with utilizing the ST of Ct DAS Contract # 18PSX0202 for Cisco Products and Services pre vetted by the St of CT implementing through their Cisco vendor Total Communications.

Data Center# 1:

1. Install a Cisco Next Generation Firewall Security Appliance with protection and performance to exceed the requirement of the **Primary** 10GB Connecticut Education Network (CEN) fiber Internet Connection. Additionally, the Firewall will also provide:
  - a. Cisco Threat Defense, Malware and Web Filtering license.
  - b. Cisco AnyConnect VPN licenses for IT and Vendor remote network access.
  - c. FirePower Management license for the firewalls at both Data Centers (up to 10).
  - d. 3yrs of Cisco SMARTnet support 24x7x4
2. Install and configure Core Network Switch.
  - a. Dual processor
  - b. Dual power
  - c. Aggregate connection within DC
  - d. Aggregate **Primary** 10GB fiber connections to all schools
  - e. 3yrs of Cisco SMARTnet support 24x7x4
3. Install and configure a 2-Node Cluster Data Center Servers, each equipped with
  - a. Dual Intel Gold Processor
  - b. 1GB Internal RAM
  - c. Hardware RAID with Dual 240GB SATA M.2 Boot drives
  - d. Interfaces for 10GB LAN Connections.
  - e. Interfaces for 16GB Fiber Channel Storage connections.
  - f. 3yrs of Cisco SMARTnet support 24x7x4
4. Install and configure Pure Storage for the following:
  - a. Dual internal controllers
  - b. 22TB of All Flash Storage Array
  - c. Fiber Channel interfaces to connect to each of the two server hosts.
  - d. 3yr Evergreen Gold Subscription, Next Business Day Delivery, 24x7 Support

## Exhibit A



### Data Center# 2:

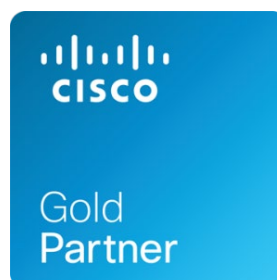
1. Install a Cisco Next Generation Firewall Security Appliance with protection and performance to exceed the requirement of the **Secondary** 10GB Connecticut Education Network (CEN) fiber Internet Connection. Additionally, the Firewall will also provide:
  - a. Cisco Threat Defense, Malware and Web Filtering license.
  - b. Cisco AnyConnect VPN licenses for IT and Vendor remote network access.
  - c. FirePower Management license for the firewalls at both Data Centers (up to 10).
  - d. 3yrs of Cisco SMARTnet support 24x7x4
2. Install and configure a Core Network Switch.
  - a. Dual processor
  - b. Dual power
  - c. Aggregate connection within DC
  - d. Aggregate **Secondary** 10GB fiber connections to all schools
  - e. 3yrs of Cisco SMARTnet support 24x7x4
3. Install and configure a 2-Node Cluster Data Center Servers, each equipped with
  - a. Dual Intel Gold Processor
  - b. 1GB Internal RAM
  - c. Hardware RAID with Dual 240GB SATA M.2 Boot drives
  - d. Interfaces for 10GB LAN Connections.
  - e. Interfaces for 16GB Fiber Channel Storage connections.
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4. Install and configure Pure Storage for the following:
  - a. Dual internal controllers
  - b. 22TB of All Flash Storage Array
  - c. Fiber Channel interfaces to connect to each of the two server hosts.
  - d. 3yr Evergreen Gold Subscription, NBD Delivery, 24x7 Support

Labor Summary Includes all Project Management, Professional Services, Installation Charges, Misc. Materials, Systems Development, Burn In Processes, Programming, Training, Documentation, Testing, Cutovers during business hours after school dismissals, after-hours work to be performed when required, follow up partnership with IT dept.

\* All work to be performed during normal business hours Monday through Friday between 8:00am and 5:00pm unless otherwise specified.

\* Additional scope to be written with customer and included in Labor Summary

\* 40% Deposit Due Upon Receipt of PO, Balances will be invoiced upon arrival of equipment, services and labor completed.



# New Haven Public Schools Dual Data Center 2023



## Itemized Pricing

Exhibit A2 Quote # 37498

Quote Prepared For: NHPS - Datacenter Project for 2023

Quote Expires: 7/31/2023

### CPE MATERIAL

QTY	PART NUMBER	DESCRIPTION	UNIT PRICE	TOTAL PRICE	Annual renewal after initial 3yr Term	Optional Annual renewal
Base Quote					ESTIMATED	ESTIMATED
<b>DC #1 Firewall (10GB Internet, 3yrs)</b>						
1	FPR2140-BUN	Cisco Firepower 2140 Master Bundle	-	-	10,601.83	
1	FPR2140-NGFW-K9	Cisco Firepower 2140 NGFW Appliance, 1U, 1 x NetMod Bay	32,240.93	32,240.93		
1	CON-SNTP-FPR2140N	<b>SMARTNET-3yrs</b> SNTC-24X7X4 Cisco Firepower 2140 NGFW Appliance, 1U	30,582.20	30,582.20		
2	FPR2K-PWR-AC-400	Firepower 2000 Series 400W AC Power Supply	-	-		
2	SFP-H10GB-CU5M	10GBASE-CU SFP+ Cable 5 Meter	83.97	167.94		
1	FPR2K-CBL-MGMT	Firepower 2000 Cable Mgmt Brackets	190.23	190.23		
1	SF-F2K-TD7.0.1-K9	Cisco Firepower Threat Defense software v7.0.1 for FPR2100	-	-		
1	FPR2140T-TMC	Cisco FPR2140 Threat Defense Threat, Malware and URL License	-	-		
1	L-FPR2140T-TMC-3Y	Cisco FPR2140 Threat Defense Threat, Malware and URL <b>3Y</b> Subs	38,123.33	38,123.33		
1	SF-FMC-VMW-10-K9	Cisco Firepower Management Center, (VMWare) for 10 devices	1,899.26	1,899.26		
1	CON-ECMU-SFFMCK9VC	<b>3yrs SWSS</b> UPGRADES Cisco Firepower Management Center, (VMWa	2,271.07	2,271.07	787.30	
1	L-AC-PLS-P-G	Secure Client Advantage Perpetual License Group	-	-		
1	CON-ECMUS-LACPLSPG	<b>3yrs</b> SOLN SUPP SWSS Cisco AnyConnect / RA VPN Plus Perpetual Lic	-	-	-	
1	AC-PLS-P-25-S	Cisco AnyConnect 25 User Plus Perpetual License	733.93	733.93		
1	CON-ECMUS-ACPL25	<b>3yrs</b> SOLN SUPP SWSS Cisco AnyConnect 25 User Plus Perpetual Licen	242.57	242.57	84.09	
99999	L-AC-PLS-P-25	Cisco AnyConnect 25 User Plus Perpetual (ASA License Key)	-	-		
<b>DC #1 C9407R Core Switches</b>						
1	C9407R	Cisco Catalyst 9400 Series 7 slot chassis	3,576.53	3,576.53	5,913.73	
1	CON-SNTP-C9407R	<b>3yrs</b> SNTC-24X7X4 Cisco Catalyst 9400	17,058.84	17,058.84		
2	C9400-NW-A	Cisco Catalyst 9400 Network Advantage License	-	-		
4	C9400-PWR-BLANK	Cisco Catalyst 9400 Series Power Supply Blank Cover	-	-		
2	C9400-S-BLANK	Cisco Catalyst 9400 Series Slot Blank Cover	-	-		
4	C9400-PWR-3200AC	Cisco Catalyst 9400 Series 3200W AC Power Supply	1,430.61	5,722.44		
4	CAB-US620P-C19-US	NEMA 6-20 to IEC-C19 13ft US	-	-		
2	PI-LFAS-T	Prime Infrastructure Lifecycle & Assurance Term - Smart Lic	-	-		
2	PI-LFAS-AP-T-3Y	PI Dev Lic for Lifecycle & Assurance Term <b>3Y</b>	-	-		
1	TE-EMBEDDED-T	Cisco ThousandEyes Enterprise Agent IBN Embedded	-	-		
1	TE-EMBEDDED-T-3Y	ThousandEyes - Enterprise Agents	-	-		
1	C9400-SUP-1	Cisco Catalyst 9400 Series Supervisor 1 Module	10,014.30	10,014.30		
2	SFP-10G-LR	10GBASE-LR SFP Module	2,127.23	4,254.46		
1	C9400-SSD-NONE	No SSD Memory Selected	-	-		
1	C9400-SUP-1/2	Cisco Catalyst 9400 Series Redundant Supervisor 1 Module	10,014.30	10,014.30		
1	C9400-SSD-NONE	No SSD Memory Selected	-	-		
2	SFP-10G-LR	10GBASE-LR SFP Module	2,127.23	4,254.46		
1	C9400-LC-24XS	Cisco Catalyst 9400 Series 24-Port 10 Gigabit Ethernet(SFP+)	17,167.37	17,167.37		
1	C9400-LC-24XS	Cisco Catalyst 9400 Series 24-Port 10 Gigabit Ethernet(SFP+)	17,167.37	17,167.37		
1	C9400-LC-24XS	Cisco Catalyst 9400 Series 24-Port 10 Gigabit Ethernet(SFP+)	17,167.37	17,167.37		
1	NETWORK-PNP-LIC	Network Plug-n-Play Connect for zero-touch device deployment	-	-		
1	D-DNAS-EXT-S-T	Cisco DNA Spaces Extend Term License for Catalyst Switches	-	-		
1	D-DNAS-EXT-S-3Y	Cisco DNA Spaces Extend for Catalyst Switching - <b>3Year</b>	-	-		
1	TE-C9K-SW	TE agent for IOSXE on C9K	-	-		
1	S9400UK9-179	Cisco Catalyst 9400 XE 17.9 UNIVERSAL	-	-		
1	C9400-DNA-A	Cisco Catalyst 9400 DNA Advantage Term License	-	-		
1	C9400-DNA-A-3Y	Cisco Catalyst 9400 DNA Advantage <b>3 Year</b> License	9,011.47	9,011.47		3,123.98
50	SFP-10G-LR-S=	10GBASE-LR SFP Module, Enterprise-Class	1,071.31	53,565.50		
12	SFP-H10GB-CU5M=	10GBASE-CU SFP+ Cable 5 Meter	83.97	1,007.64		
<b>DC #1 Cisco UCS Pair (M6, Gold, 3yrs for External Storage)</b>						
1	UCS-M6-MLB	UCS M6 RACK, BLADE MLB	-	-	2,627.87	
2	UCSC-C240-M6SX	UCS C240 M6 Rack w/o CPU, mem, drives, 2U w 24	3,718.73	7,437.46		
2	CON-SNTP-UCSCXC24	<b>3yrs SNTC</b> -24X7X4 UCS C240 M6 Rack	3,790.19	7,580.38		
4	UCS-M2-240GB	240GB SATA M.2	349.10	1,396.40		
2	UCS-M2-HWRAID	Cisco Boot optimized M.2 Raid controller	153.54	307.08		
2	UCSC-RIS1A-240M6	C240 M6 Riser1A; (x8;x16x, x8); StBkt; (CPU1)	244.81	489.62		
4	UCSC-PSU1-1050W	Cisco UCS 1050W AC Power Supply for Rack Server Platinum	352.26	1,409.04		
2	UCSX-TPM-002C	TPM 2.0, TCG, FIPS140-2, CC EAL4+ Certified, for M6 servers	38.64	77.28		
4	UCS-CPU-I5315Y	Intel 5315Y 3.2GHz/140W 8C/12MB DDR4 2933MHz	1,973.33	7,893.32		
16	UCS-ML-128G4RW	128GB LRDIMM QRx4 3200 (16Gb)	6,124.40	97,990.40		
2	UCSC-PCIE-IQ10GF=	Intel X710 quad-port 10G SFP+ NIC	1,107.74	2,215.48		
2	UCSC-PCIE-BD16GF=	Emulex LPe31002 dual port 16G FC HBA	2,732.23	5,464.46		
1	UCSC-RAIL-M6=	Ball Bearing Rail Kit for C220 & C240 M6 rack servers	182.89	182.89		
1	VMW-VCS-STD-3A=	VMware vCenter 7 Server Standard, <b>3 yr</b> support required	6,636.11	6,636.11	2,300.52	
1	CON-ISOV1-VXSTD3A	VCenter Server STD for vSphere 1-Inst: <b>3-YR</b>	8,195.89	8,195.89	2,841.24	
4	VMW-VSP-STD-3A=	VMware vSphere 7 Std (1 CPU, 32 Core) <b>3-yr</b> , Support Required	1,105.26	4,421.04	1,532.63	
4	CON-ISOV1-VXSTD3A	VSphere Standard for 1 CPU; ANNUAL List <b>3-YR</b> Req'd	1,840.51	7,362.04	2,552.17	
<b>DC #1 - FlashArray Storage Bundle (22 TB, 36 Mo.)</b>						
1	FA-X20R3-FC-22TB-22/0-EMEZZ	FlashArray X20R3-ETH-22TB-22/0-EMEZZ	100,966.15	100,966.15	19,031.00	
36	FA-X20R3-22TB 1MO.ADV.GOLD	FA-X20R3-22TB 1 Month Evergreen Gold Subscription, NBD Delivery, 24/7 Support	1,524.92	54,897.12		
4	T-FIBER-3M	Fiber Jumper LC/LC 3M	47.08	188.32		
1	PS-FLASHARRAY-INSTALL	FlashArray (//X, //C) InstallService				

DC #2 Firewall (10GB Internet)					
1	FPR2140-BUN	Cisco Firepower 2140 Master Bundle	-	-	10,601.83
1	FPR2140-NGFW-K9	Cisco Firepower 2140 NGFW Appliance, 1U, 1 x NetMod Bay	32,240.93	32,240.93	
1	CON-SNTP-FPR2140N	3yrs SNTP-24X7X4 Cisco Firepower 2140 NGFW Appliance, 1U,	30,582.20	30,582.20	
2	FPR2K-PWR-AC-400	Firepower 2000 Series 400W AC Power Supply	-	-	
2	SFP-H10GB-CU5M	10GBASE-CU SFP+ Cable 5 Meter	83.97	167.94	
1	FPR2K-SSD-BBLKD	Firepower 2000 Series SSD Slot Carrier	-	-	
1	FPR2K-CBL-MGMT	Firepower 2000 Cable Mgmt Brackets	190.23	190.23	
1	FPR2K-SSD200	Firepower 2000 Series SSD for FPR-2130/2140	-	-	
1	SF-F2K-TD7.0.1-K9	Cisco Firepower Threat Defense software v7.0.1 for FPR2100	-	-	
1	FPR2140T-TMC	Cisco FPR2140 Threat Defense Threat, Malware and URL License	-	-	
1	L-FPR2140T-TMC-3Y	Cisco FPR2140 Threat Defense Threat, Malware and URL 3Y Subs	38,123.33	38,123.33	13,216.09
DC #2 C9407R Core Switches					
1	C9407R	Cisco Catalyst 9400 Series 7 slot chassis	3,576.53	3,576.53	5,913.73
1	CON-SNTP-C9407R	3yrs SNTP-24X7X4 Cisco Catalyst 9400	17,058.84	17,058.84	
2	C9400-NW-A	Cisco Catalyst 9400 Network Advantage License	-	-	
4	C9400-PWR-BLANK	Cisco Catalyst 9400 Series Power Supply Blank Cover	-	-	
2	C9400-S-BLANK	Cisco Catalyst 9400 Series Slot Blank Cover	-	-	
4	C9400-PWR-3200AC	Cisco Catalyst 9400 Series 3200W AC Power Supply	1,430.61	5,722.44	
4	CAB-US620P-C19-US	NEMA 6-20 to IEC-C19 13ft US	-	-	
2	PI-LFAS-T	Prime Infrastructure Lifecycle & Assurance Term - Smart Lic	-	-	
2	PI-LFAS-AP-T-3Y	PI Dev Lic for Lifecycle & Assurance Term 3Y	-	-	
1	TE-EMBEDDED-T	Cisco ThousandEyes Enterprise Agent IBN Embedded	-	-	
1	TE-EMBEDDED-T-3Y	ThousandEyes - Enterprise Agents	-	-	3,123.98
1	C9400-SUP-1	Cisco Catalyst 9400 Series Supervisor 1 Module	10,014.30	10,014.30	
2	SFP-10G-LR	10GBASE-LR SFP Module	2,127.23	4,254.46	
1	C9400-SSD-NONE	No SSD Memory Selected	-	-	
1	C9400-SUP-1/2	Cisco Catalyst 9400 Series Redundant Supervisor 1 Module	10,014.30	10,014.30	
1	C9400-SSD-NONE	No SSD Memory Selected	-	-	
2	SFP-10G-LR	10GBASE-LR SFP Module	2,127.23	4,254.46	
1	C9400-LC-24XS	Cisco Catalyst 9400 Series 24-Port 10 Gigabit Ethernet(SFP+)	17,167.37	17,167.37	
1	C9400-LC-24XS	Cisco Catalyst 9400 Series 24-Port 10 Gigabit Ethernet(SFP+)	17,167.37	17,167.37	
1	C9400-LC-24XS	Cisco Catalyst 9400 Series 24-Port 10 Gigabit Ethernet(SFP+)	17,167.37	17,167.37	
1	NETWORK-PNP-LIC	Network Plug-n-Play Connect for zero-touch device deployment	-	-	
1	D-DNAS-EXT-S-T	Cisco DNA Spaces Extend Term License for Catalyst Switches	-	-	2,627.87
1	D-DNAS-EXT-S-3Y	Cisco DNA Spaces Extend for Catalyst Switching - 3Year	-	-	
1	TE-C9K-SW	TE agent for IOSXE on C9K	-	-	
1	S9400UK9-179	Cisco Catalyst 9400 XE 17.9 UNIVERSAL	-	-	
1	C9400-DNA-A	Cisco Catalyst 9400 DNA Advantage Term License	-	-	
1	C9400-DNA-A-3Y	Cisco Catalyst 9400 DNA Advantage 3 Year License	9,011.47	9,011.47	
50	SFP-10G-LR-S=	10GBASE-LR SFP Module, Enterprise-Class	1,071.31	53,565.50	
12	SFP-H10GB-CU5M=	10GBASE-CU SFP+ Cable 5 Meter	83.97	1,007.64	
DC #2 Cisco UCS Pair (M6, Gold, 3yrs for External Storage)					
1	UCS-M6-MLB	UCS M6 RACK, BLADE MLB			1,532.63
2	UCSC-C240-M6SX	UCS C240 M6 Rack w/o CPU, mem, drives, 2U w 24	3,718.73	7,437.46	
2	CON-SNTP-UCSCXC24	3yrs SNTP-24X7X4 UCS C240 M6 Rack	3,790.19	7,580.38	
4	UCS-M2-240GB	240GB SATA M.2	349.10	1,396.40	
2	UCS-M2-HWRAID	Cisco Boot optimized M.2 Raid controller	153.54	307.08	
2	UCSC-RIS1A-240M6	C240 M6 Riser1A; (x8;x16x, x8); StBkt; (CPU1)	244.81	489.62	
4	UCSC-PSU1-1050W	Cisco UCS 1050W AC Power Supply for Rack Server Platinum w/PWR CRD	352.26	1,409.04	
2	UCSX-TPM-002C	TPM 2.0, TCG, FIPS140-2, CC EAL4+ Certified, for M6 servers	38.64	77.28	
4	UCS-CPU-I5315Y	Intel 5315Y 3.2GHz/140W 8C/12MB DDR4 2933MHz	1,973.33	7,893.32	
16	UCS-ML-128G4RW	128GB LRDIMM QRx4 3200 (16Gb)	6,124.40	97,990.40	
2	UCSC-PCIE-IQ10GF=	Intel X710 quad-port 10G SFP+ NIC	1,107.74	2,215.48	2,552.17
2	UCSC-PCIE-BD16GF=	Emulex LPe31002 dual port 16G FC HBA	2,732.23	5,464.46	
1	UCSC-RAIL-M6=	Ball Bearing Rail Kit for C220 & C240 M6 rack servers	182.89	182.89	
4	VMW-VSP-STD-3A=	VMware vSphere 7 Std (1 CPU, 32 Core) 3-yr. Support Required	1,105.26	4,421.04	
4	CON-ISV1-VSXXSTD3A	VSphere Standard for 1 CPU; 3-YR Req'd	1,840.51	7,362.04	
DC #2 - FlashArray Storage Bundle (22 TB, 36 Mo.)					
1	FA-X20R3-FC-22TB-22/O-EMEZZ	FlashArray X20R3-ETH-22TB-22/O-EMEZZ	100,966.15	100,966.15	19,031.00
36	FA-X20R3-22TB 1MO,ADV,GOLD	FA-X20R3-22TB 1 Month Evergreen Gold Subscription, NBD Delivery, 24/7 Support	1,524.92	54,897.12	
4	T-FIBER-3M	Fiber Jumper LC/LC 3M	47.08	188.32	
1	PS-FLASHARRAY-INSTALL	FlashArray (//X, //C) InstallService			

PROJECT SUMMARY				
	Material Summary	1,163,109.15	103,747.70	6,247.95
	Labor Summary	237,755.00		
	Subtotal	1,400,864.15		
	APC Lithium ION	99,135.77		
	Total Customer Price	1,499,999.92		

\* All work to be performed during normal business hours Monday through Friday between 8:00am and 5:00pm unless otherwise specified.

\* Additional scope to be written with customer and included in Labor Summary

\* 40% Deposit Due Upon Receipt of PO, Balances will be invoiced upon arrival of equipment, services and labor completed

Labor Summary Includes all Project Management, Professional Services, Installation Charges, Misc. Materials, Systems Development, Burn In Processes, Programming, Training, Documentation, Testing, Cutovers during business hours after school dismissals, after-hours work to be performed when required, follow up partnership with IT dept.

Chris Garlock  
NHPS Account Manager  
860-622-4132  
[chrisgarlock@totalcomm.com](mailto:chrisgarlock@totalcomm.com)

**TOTAL**  
COMMUNICATIONS

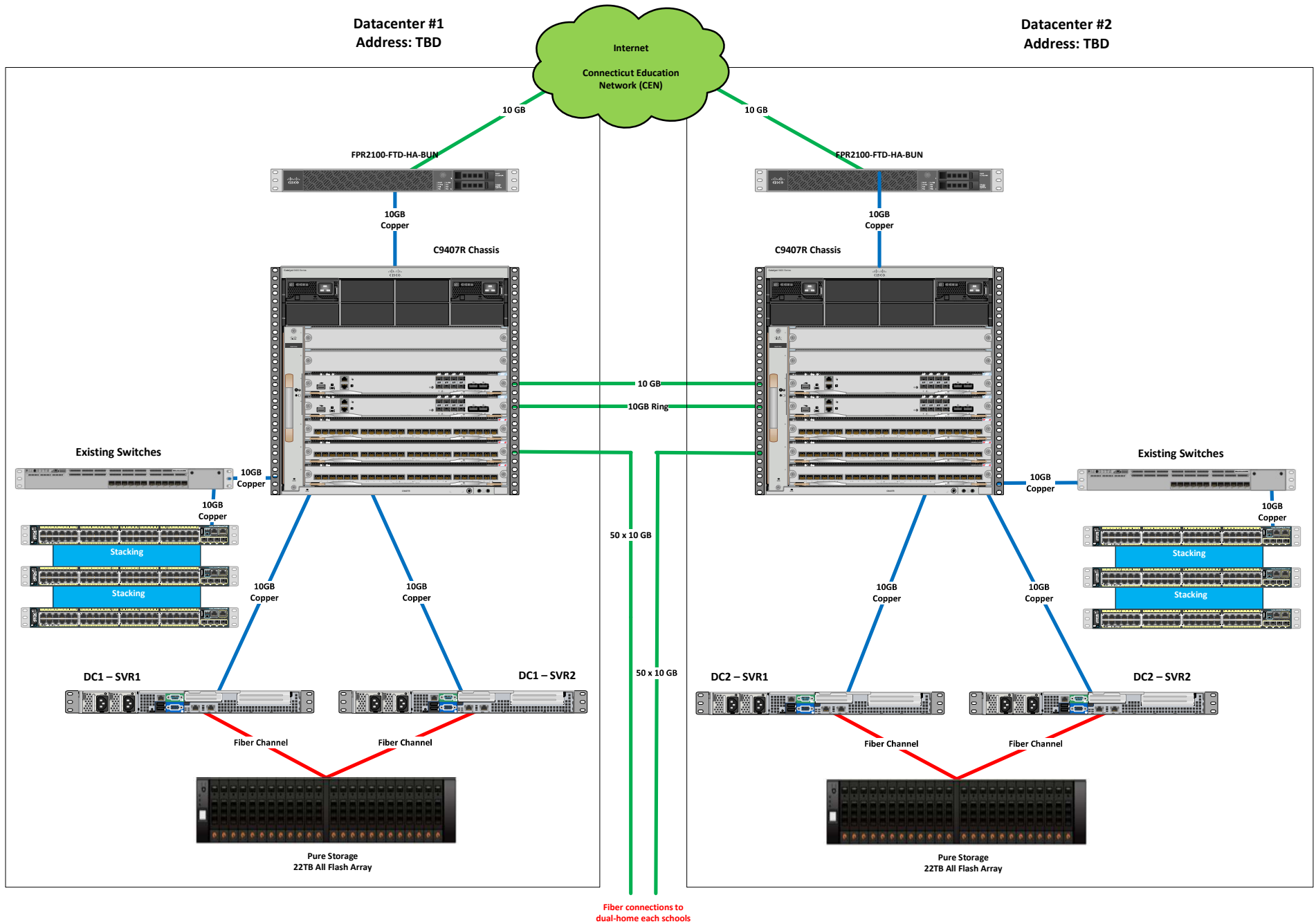


Technology focused.  
Client driven.

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Steve Barbarito  
Cisco Systems Engineer  
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Customer:	New Haven Public Schools	Drawing:	Steve Barbarito	Description:	Network with Cisco Switches
Design:	NHPS Datacenters	Original Date:	January 2023	Revision Date:	Rev. #: 1





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Solicitation Detail

SCP Contract Details

## State Contracting Portal Contract Results

### Administrative Services, Procurement Services Contract Detail Info For # 18PSX0202

#### Dates

Award Date	Start Date	End Date
04/11/2019	04/11/2019	04/10/2024

#### Description

Cisco Products and Services

#### Comments

#### Solicitation and Contract Conditions

Includes SBE/MBE Requirements	Qualified Partnership	DBE	Political Subdivisions	Agencies	CT Recovery
No	No	No	Yes	Yes	No

#### Contact(s)

Contact	Telephone	FAX	E-Mail
SusanneHawkins	(860) 713-5064	(860) 622-2941	susanne.hawkins@ct.gov

#### Common Documents

Date	Description
4/15/2019 7:41:10 AM	<a href="#">18PSX0202 Contract Award Document Complete.pdf</a> Contract Document

#### 2 Vendor(s)

Contract #	Cert	Vendor	Contact	Catalog
18PSX0202AA Start: 04/11/2019 End: 04/10/2024	No	<b>ePlus</b> 45 Shawmut Road Canton, MA 02021 Peoplesoft ID: 0000064731	<b>Steve Low</b> Phone: (781) 615-1314 FAX: (781) 615-1401 <a href="#">E-Mail</a>	No
18PSX0202AB Start: 04/11/2019 End: 04/10/2024	No	<b>Total Communications Inc.</b> 333 Burnham Street East Hartford, CT 06108 Peoplesoft ID: 0000022988	<b>Greg Strouth</b> Phone: (860) 622-4128 <a href="#">E-Mail</a>	No

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