

REQUEST FOR PROPOSAL

for

Dark Fiber, Lit Fiber or Self Provisioned Broadband Networks for Wide Area Network Connectivity

CADDO PARISH SCHOOL BOARD
1961 Midway Street
Shreveport, Louisiana 71108



RFP Number: **REP-07T-16**

Proposals Will Be Accepted Until:

**10:30 AM., CST, TUESDAY,
SEPTEMBER 29, 2015**

Caddo Parish School Board Office
of the Director of Purchasing
P O Box 32000
Shreveport, Louisiana 71130-2000

SCHEDULE OF TIME LINES

- A. Schedule of Activities: The following tentative time lines have been established for the benefit of both CPPS and the vendors responding to the RFP.

ACTIVITY	<u>Date</u>	<u>Time</u>
1. Release of Request For Proposals to Vendors and First Public Notice Published in Shreveport Times	August 25, 2015	N/A
2. Second Public Notice Published in the Shreveport Times	September 1, 2015	N/A
3. Third Public Notice Published in the Shreveport Times	September 8, 2015	N/A
4. Pre-Proposal Conference (non-mandatory)	September 15, 2015	10:00 a.m.
5. Letter of Intent From Vendors	September 16, 2015	10:30 a.m.
6. Proposal Opening date	September 29, 2015	10:30 a.m.
7. Presentation of Proposal (As invited)	October 1-2, 2015	TBD
8. Complete Evaluations	October 5, 2015	N/A
9. Submit Board Mailout	October 6, 2015	N/A
10. Expected Board Approval	October 20, 2015	4:30 p.m.

INSTRUCTIONSTOVENDORS

1. PREPARING AND SUBMITTING OF PROPOSALS

1.1 INSTRUCTIONS. These instructions define the conditions of the proposal solicitation and the specifications of the services desired. The words "Proposer, Service Provider, Vendor, Contractor, Sub-Contractor" and their derivatives may be used interchangeably in this document depending on the capabilities of any one or multiple respondents to this RFP.

1.2. The PROPOSAL FORMS define the requirements of the work to be done. The vendor in the space provided must sign the PROPOSAL FORMS. The authority of the person signing the PROPOSAL FORMS shall be in accordance with LRS 38:2212.0.

1.2.1 ALTERNATES. Innovative alternative proposals are permitted, provided however that they are clearly identified as such and all deviations from the primary proposal are listed.

1.3 PROPOSAL ENVELOPE. The proposal shall be submitted in a sealed envelope with the attached envelope cover provided by Caddo Parish Public School Board (CPPS) attached on outside or submitted electronically on the proved electronic bid site www.bidexpress.com.

1.4 COST. The vendor shall quote a price for service. The service will be indicated on the PROPOSAL FORMS. In all cases the requirements and price configurations of the PROPOSAL FORMS shall prevail.

1.5 VENDOR QUALIFICATION FORMS. This appears on the Request For Proposal signature page and is required. Failure to complete this form in its entirety may be cause for rejection.

1.5.1 VENDOR'S FORM OF BUSINESS ORGANIZATION. This is required for preparation of any contract documents for successful vendors. The vendor shall show the form of organization, e.g., Corporation, Partnership, An Individual, or Other.

1.5.2 VENDOR CERTIFICATION AND IDENTIFICATION. Failure to indicate the vendor's exact legal name may rule the proposal irregular. An unsigned proposal will not be considered.

1.6 ASSIGNMENT. The submission of a proposal under the terms of these specifications constitutes agreement to the following antitrust provision: For good cause and as consideration for executing this contract, I/We hereby convey, sell, assign and transfer to the State of Louisiana all rights, title and interest in and to all causes of action it may now or hereafter acquire under the antitrust laws of the United States and the State of Louisiana, relating to the particular services acquired by the State of Louisiana pursuant to this purchase made by its agency, The Caddo Parish School Board.

1.6.1 PLACE, DATE AND HOUR. All proposals shall be submitted to the PURCHASING OFFICE, CADDO PARISH SCHOOL BOARD, 1961 MIDWAY STREET, SHREVEPORT, LA, 71108 or mailed to the PURCHASING OFFICE, CADDO PARISH SCHOOL BOARD, P. O. BOX 32000, SHREVEPORT, LA 71130-2000 or submitted electronically at www.bidexpress.com not later than 10:30 A.M., CST ON TUESDAY, SEPTEMBER 29, 2015.

1.6.2 The first page of the proposal invitation and the PROPOSAL FORMS designate the name of the proposal and the date and hour of the proposal receipt. Proposals will be received until the stated date and time. Irrespective of the reason, proposals arriving after the stated date and time will not be accepted.

1.6.3 All proposals shall be either hand delivered by the vendor or his agent in which instance the deliverer shall be handed a written receipt. Proposals may also be sent by registered mail or by certified mail with a return receipt requested or by regular mail.

1.6.4 **IMPORTANT.** The responsibility for timely presentation (delivery) of a proposal rests solely with the vendor. A proposal delayed beyond the stated time and date through the mail, Federal Express, UPS, or other cannot and will not be accepted.

2. PROPOSAL PRESENTATION ****IMPORTANT****

- 2.1 Contractors may be required to explain proposal and answer questions.
- 2.2 Invitations to contractors to make presentations are at the sole discretion of CPPS and in no way implies intent for contract offer.
- 2.3 If submitting a hard-copy proposal, an electronic copy of the proposal should be also included with the submission. The copy should be formatted in either Adobe PDF or Microsoft Word on a flash-drive.
- 2.4 If submitting a hard-copy proposal, there should be one (1) original and five (5) copies for committee distribution.
- 2.5 The proposal shall include a table of content, indexed sections and shall be in the EXACT order as the requested items appear in Section 3: Goods and Services Specifications.

3. CHANGE OR WITHDRAWAL OF PROPOSALS

- 3.1 CHANGE OR WITHDRAWAL PRIOR TO PROPOSAL OPENING. Should any vendor desire to change or withdraw a proposal prior to the scheduled opening, the vendor may do so by making such request in writing to the Purchasing Office. This communication shall be received prior to the date and hour of the proposal opening to the attention of Lisa Lloyd referencing RFP name and number.
- 3.2 CHANGE AFTER PROPOSAL OPENING BUT PRIOR TO PROPOSAL AWARD. After proposals are opened, they may not be changed except to correct patently obvious mathematical errors or clerical mistakes. Verification of the correct proposal actually intended shall be submitted by the vendor to the Purchasing Office prior to the final award by the Board.
- 3.3 WITHDRAWAL AFTER PROPOSAL OPENING BUT PRIOR TO PROPOSAL AWARD. After proposals are opened, a vendor may request that his proposal be withdrawn for good cause. Such request must be submitted in writing to the Purchasing Office prior to the final award by the Board. If the Purchasing Office agrees that the request is valid, the proposal may be withdrawn. It shall be understood that no proposal can be withdrawn after Board approval without consideration of penalties.

4. REJECTION OF PROPOSALS

CPPS reserves the right to reject any or all proposals and to waive any informalities.

5. EVALUATIONS:

- 5.1 Each proposal will be evaluated by a committee comprised of various departmental representatives.
- 5.2 The evaluation committee will be comprised of no less than three (3) persons.
- 5.3 Proposals will be graded on a scale of 1-10, with 1 being the lowest rating within an ascribed category.
- 5.4 Each category will be graded separately, and a cumulative score will help dictate the awarding of contract. Categories may include, but are not limited to: Cost, Offered Option(s), Past Experience & References, Plan Viability, Completion Date Estimate.

A rubric will be compiled based on the Goods and Services Specifications section and will be scored based on that rubric.

6. PROPOSAL AWARDS

6.1 **BASIS FOR AWARDS.** An award resulting from this request shall be awarded to the responsive and responsible vendor(s) whose proposal is determined to be the most advantageous to CPPS, taking into consideration price and the evaluation criteria set forth herein; however the right is reserved to reject any and all proposals received; to waive any informalities, and in all cases CPPS will be the sole judge as to whether a vendor's proposal has or has not satisfactorily met the requirements of the RFP.

6.2 **AVAILABILITY OF PROPOSAL INFORMATION.** Request for Proposals will be received only on or before the due date in the CPPS office at the time and date noted. The recommendation for proposal award will be presented to CPPS for approval. Vendors may be required to attend the board meeting. Each proposal response to the extent it contains confidential and proprietary information will be considered confidential and not made available for public review. Vendors will be notified of the award recommendation only.

6.3 **OFFICIAL AWARD DATE.** Awards become official at the time a proposal is accepted by CPPS during their regular session.

6.4 **FILING OF OBJECTION TO PROPOSAL AWARD.** Any objection to an award by CPPS must be filed in writing and must be received by the Purchasing Office no later than 9:00 A. M. on the first Monday following the official award.

6.5 **FILING OF OBJECTION TO SPECIFICATIONS OR PROPOSAL CONDITIONS.** Objections to either the proposal specifications or proposal conditions must be filed in writing and must be received by the Purchasing Office at least five (5) days prior to the hour and date of the proposal opening.

6.6 **NOTIFICATION OF AWARD.** The contract mailed or delivered to the successful vendor is the official authorization to perform the services described therein. The time allowed for delivery or performance begins with the date of proposal acceptance and approval by CPPS whether or not a contract has been issued.

7. PROPOSAL SECURITY DEPOSITS

7.1 A proposal security deposit is required for this proposal to guarantee that the successful vendor will, if awarded the contract, enter into the contract and provide performance security as required by these specifications within thirty (30) days after award of the proposal.

7.2 Proposal security shall be in the form of a certified check, cashier's check, bank money order, or vendor's bond in the sum of 5% of the total amount of the proposal.

7.2.1 When a vendor's bond is used, the agent's power of attorney must be attached to the bond submitted.

7.2.2 When an irrevocable letter of credit is used, it shall guarantee that the issuer shall pay to the Caddo Parish School Board the sum set forth therein upon presentation of written certification by the Purchasing Agent of CPPS that the proposal was awarded to the vendor on whose behalf the letter of credit was issued and that such vendor has failed to enter into the contract or provide the required performance security within thirty (30) days after award of the proposal.

7.3 Proposal security must accompany the proposal; it cannot be submitted after the proposal has been opened.

7.4 Proposal security deposits shall be returned after a satisfactory contract has been made with the successful vendor, or if any or all proposals are rejected.

7.5 Any proposal received and opened without proposal security when such has been required as a part of the proposal shall be ruled as unacceptable and cannot be considered.

8. CONTRACTS AND PERFORMANCE (DELIVERY) SECURITY

8.1 CONTRACTS. Contracts shall be fully executed by the successful vendor within thirty (30) days after the award date.

8.2 PERFORMANCE SECURITY. A performance (delivery) bond or check is required to guarantee performance or delivery. Irrevocable letters of credit for performance security are not acceptable.

8.2.1 BONDING COMPANY. The surety(ies) shall be authorized to do business in the State of Louisiana. All surety companies are subject to approval and may be rejected by CPPS without cause in the same manner that proposals may be rejected without cause. The agent's power of attorney must be attached to the bond submitted.

8.2.2 AMOUNT. The firm or individual(s) to whom a contract shall be awarded will be required to execute and deliver to CPPS a performance (delivery) bond, cashier's check, certified check or equal acceptable to CPPS, in the amount fifty percent (50%) of the awarded contract.

8.2.3 RELEASE OF PERFORMANCE SECURITY. Return to the successful vendor of his cash security, or notification to the successful vendor and to the bonding company to cancel a bond, will be made when requested by the successful vendor and/or bonding company and when all has been accepted and invoices have been approved for payment.

8.2.4 FAILURE TO PERFORM In the event a successful vendor fails to perform on the awarded proposal, CPPS shall declare the successful vendor in default. Default will be a failure by the vendor to do that which is anticipated, expected, or required as defined in the contract and associated supporting documentation. The successful vendor in default shall then pay to CPPS, as liquidated damages, the amount of the contract in accordance with the terms of the performance security..

9.0 INVOICES. Unless other arrangements are made with the Purchasing Office, invoices must be those of the successful vendor and must show the purchase order number, proposal number, complete price and total. Invoices shall be submitted to the attention of the ACCOUNTS PAYABLE DEPARTMENT, CADDO PARISH SCHOOL BOARD, P. O. BOX 32000, SHREVEPORT, LA 71130-2000.

9.1 RESERVATIONS BY BOARD

9.1.1 Limited funds are budgeted for this service(s). Should the proposal price be more than anticipated, CPPS reserves the right to reduce as appropriate to remain within the budgeted allocation for the purchase.

9.1.2 The Caddo Parish School Board may reject any proposal for failure by the vendor to comply with any requirement stated herein or as appearing on the PROPOSAL FORMS or in the general proposal conditions or in any attachment thereto which becomes a part of the proposal.

10.0 SUBCONTRACTING

10.1.1 Vendor proposing to subcontract any portion of the proposal shall submit as part of the proposal the name and qualifications, including licenses and certifications, of each potential Subcontractor along with a summary statement of the work which that Subcontractor is to perform.

10.2 The Vendor shall be fully responsible for all work and actions of its Subcontractors and their employees and agents. The Vendor shall be solely responsible for the completion of all work and services under this agreement in accordance with the terms and conditions of the RFP and the contract resulting from, not with- standing the Vendor's use of Subcontractors or agents.

11.0 ERRORS AND OMISSIONS

11.1.1 The specifications may contain errors or omissions that if undetected would seriously affect the finished job. It shall be the responsibility of the vendor to detect such errors or omissions and to notify CPPS sufficiently in at least five (5) days in advance of the proposal due date

to enable CPPS to make any corrections or modifications to the specifications deemed appropriate.

12.0 SUMMARY

Caddo Parish School Board (CPPS) is seeking proposals from qualified and proven organizations, hereinafter referred to as the Contractor, to provide WAN services to assist the Caddo Parish School Board in its efforts to provide necessary connectivity to students, faculty and staff throughout the district in accordance with the terms, conditions, and specifications contained in this Request for Proposals (RFP).

13.0 ELIGIBILITY

The provider contractor should specialize in E-Rate Telecommunications Infrastructure in and around Louisiana. To be eligible to respond to this RFP, the proposing contractor must demonstrate that they, or the principals assigned to the project, have successfully completed services, similar to those specified in this RFP, to institutions similar in size and complexity to CPPS.

13.1 FINAL APPROVAL

NOTE: THE CADDO PARISH SCHOOL BOARD MAY REJECT ANY PROPOSAL FOR FAILURE BY THE VENDOR TO COMPLY WITH ANY REQUIREMENT STATED ABOVE, OR IN THE PROPOSAL FORMS, OR IN THE SPECIAL OR GENERAL CONDITIONS, OR IN ANY ATTACHMENTS THERETO WHICH BECOME A PART OF THE PROPOSAL.

DEBARMENT CLAUSE: Before completing the Invitation for Bid Form, please read the following information:

1. The prospective lower tier participant certifies, by submission of his proposal, that neither it nor its principals are presently debarred, suspended, proposed for debarment, declared ineligible or voluntarily excluded from participation in this transaction by any Federal or State Department or agency.
2. Where the prospective participant is unable to certify any of the statements in this document, Such prospective participant shall attach an explanation to this proposal response.

CADDO PARISH SCHOOL BOARD
AN EQUAL OPPORTUNITY EMPLOYER

REQUEST FOR PROPOSAL

August 25, 2015

RFP-07T-16

CADDO PARISH SCHOOL BOARD
 PO BOX 32000
 1961 MIDWAY STREET
 SHREVEPORT, LA 71130-2000

Lisa Lloyd, CPPB
 PH: 318-603-6481

lsloyd@caddoschools.org

PROPOSAL TITLE: Dark Fiber, Lit Fiber or Provisioned Fiber Wide Area Network Connectivity

**SEALED PROPOSALS WILL BE ACCEPTED UNTIL: 10:30 A.M.CST ON,
 TUESDAY, SEPTEMBER 29, 2015**

Dates Advertised: August. 25th, September 1st, 8th, 2015

Lisa Lloyd, CPPB Director of Purchasing

TO BE COMPLETED BY PROPOSER:

LEGAL NAME OF BIDDER:

MAILING ADDRESS:

CITY, STATE, ZIP CODE:

TELEPHONE NO: ())

FAX NO: ())

SUPPLEMENTARY STATEMENTS. I/We understand that supplementary statements dealing with the price quotation as attached to the proposal forms will be ignored.

PROPOSER CERTIFICATION AND IDENTIFICATION. I/We certify service(s) submitted for proposal pursuant to these specifications and proposal invitations do in fact comply fully with all of the specification details and requirements and with all Federal and State regulations governing service(s) of the type contained herein.

I/We certify that this proposal is made without prior understanding, agreement or connection with any corporation, firm or person submitting a proposal for the services, and is in all respects fair and without collusion or fraud. I/We further certify that none of the principals or majority owners of the firm or business submitting this proposal are at the same time connected with or employed by the Caddo Parish School Board.

AUTHORIZED SIGNATURE:

DATE SIGNED:

NAME (PRINTED/TYPED):

TITLE:

EMAIL:

PROPOSER QUALIFICATION: The form of business organization under which this bid is submitted is as follows:

A CORPORATION incorporated under the laws of the State of _____ and **(is) (is not)** authorized to do business in the State of Louisiana.

A PARTNERSHIP. Names of Partners: _____ AN INDIVIDUAL _____

trading and doing business under a name and style other than his own. The Owner's Name is: _____

PROPOSAL SECURITY:

PERFORMANCE BOND:

ACKNOWLEDGEMENT OF ADDENDA RECEIVED:

Addendum No. 1 Dated: _____ Addendum No. 2 Dated: _____

Addendum No. 3 Dated: _____ Addendum No. 4 Dated: _____

FROM: _____

Proposal NUMBER: _____

Proposal TITLE: _____

OPENING DATE: _____

SEND TO:

**CADDO PARISH SCHOOL BOARD
Purchasing Department
1961 Midway Street
P.O. Box 32000
Shreveport, LA 71130-2000**

Attn Bidders: Use this print format on the outside of your envelope when responding to any formal bids or RFP's.
We do not accept fax or electronic bid responses (except through CPPS authorized bidexpress.com) for any formal bids or RFP's.

1.0 GENERAL

This Request for Proposal (RFP) provides interested suppliers with sufficient information to prepare and submit Proposals for consideration with the intent of contracting the fiber-based infrastructure for the Caddo Parish Public School's (CPPS) wide area network.

The current CPPS network has two Network Service Points that provides services to the campuses and facilities. The current Network Operations Center (NOC) is at located at the CPPS, Central Office, 1961 Midway Avenue, Shreveport, LA, 71198; and the Student Network Operation Center (SNOC) is at: Northwood High School, 5939 Old Mooringsport Rd., Shreveport, LA 71107. CPPS has more than 40,000 students, 5600 personnel and 69 instructional campuses made up of 27 Elementary (EL) schools, 14 Elementary/Middle (EM) schools, 7 Middle schools, 3 Middle/High (MH), 8 High Schools, 7 Alternative schools, 3 Unique Schools and ancillary buildings. CPPS currently has a point-to-multipoint ethernet network service contract that expires in June 30, 2016.

1.1 Work Included

CPPS will evaluate fiber-based network infrastructure proposals for the CPPS Wide Area Network solution for all campuses and facilities to replace the current circuit based proposal. CPPS will evaluate long term contracts options for dark, lit or self-provisioned fiber, as defined by the FCC Second E-Rate Modernization Ruling. The bandwidth requirements of the network are included in Appendix 2: CPPS Bandwidth Requirements and Assumptions.

The solution will provide connectivity from each CPPS facility to the District Service Points at:

Network Operations Center (NOC)
Caddo Parish Public Schools
Central Office
1961 Midway Avenue
Shreveport, LA, 71198

Student Network Operation Center (SNOC)
Northwood High School
5939 Old Mooringsport Rd.
Shreveport, LA 71107.

The following additional sites can be utilized for consolidation/ring/hub sites if the overall design requires based on the recommendations of the provider to meet services providers design models, cost effectiveness, scalability, reliability, maintenance, operations and Service Level Agreement (SLA):

Caddo Magnet High
1601 Viking
Shreveport, Louisiana 71101
318.221.2501

Captain Shreve
6115 E. Kings
Shreveport, Louisiana 71105
318.865.7137

Southwood
9000 Walker Road
Shreveport, Louisiana 71118
318.686.9512

The proposal should include:

The dark, lit or self-provisioned fiber network infrastructure.

The modulating equipment to light the fiber based on the proposal type.

The operations, maintenance, SLA and ongoing cost of the fiber infrastructure and modulating equipment required to lit the fiber.

1.2 Questions

Bidders needing clarification or finding errors, omissions, or corrections in the specifications shall contact Ms. Lisa Lloyd by email no later than September 22, 2015 at 10:30 AM (seven calendar days prior to the proposal due date and time). Requests after this date will not be answered. Any information pertaining to any requests for clarification or corrections will be sent out in an addendum before the proposal is due.

Caddo Parish School Board
Office of the Director of Purchasing
Attn: Lisa S. Lloyd, CPPB

If by Mail:
P O Box 32000
Shreveport, Louisiana 71130-2000

If by Courier:
1961 Midway Street, Shreveport, LA, 71108

LSLLOYD@caddoschools.org

Voice: (318) 603-6481

Fax: (318) 603-6474

2.0 SPECIAL TERMS AND CONDITIONS OF REQUEST FOR PROPOSAL ("RFP")

2.1 Terms

A ten (10) year fiber lease agreement term will be evaluated for the dark fiber option. At the end of the initial term, the agreement should provide an option for annual renewal for up to two (2), five (5) years contracts upon written mutual agreement of both parties.

A lit fiber solution can be provided with a five year service contract term with an option to renew for an additional five year contract. Contracts will begin on or after July 1 and end June 30 to coincide with SLD funding.

2.2 Required Notice to Proceed

CPPS will follow the purchasing policies of the CPPS Board and requirements and procedures of the Schools and Libraries Universal Service to be eligible for all available funding.

The implementation of any associated contracts resulting from this competitive bid process will be dependent on the districts' issuance of a written Notice to Proceed. E-rate funding notification alone will not signify Notice to Proceed. The district will have the right to allow the contract to expire without implementation if appropriate funding does not come available.

2.3 E-Rate Eligible Service Provider

The information in this Request for Competitive Sealed Proposal [RFP] is provided in conjunction with the Schools and Libraries Division [SLD] Forms 470 and 471, in partial fulfillment of the requirements for the FCC Universal Service Fund (*a.k.a.*, "E-Rate") discounts. Bidders must have a valid Service Provider Identification Number [SPIN]. Telecommunications providers must also be registered ("common carrier") providers as defined by the SLD. Service providers must be prepared to discount invoices to the school and submit the balance to the E-Rate program via Service Provider Invoice [SPI] forms, as specified by the SLD. ("SPI mode" rather than "BEAR mode" invoicing is preferred.) Respondents to the RFP must be in good standing with the E-Rate program. If a provider is not an E-Rate eligible service provider, the proposal will be based on 0% discount in the overall cost evaluation verses the 85% discount with E-Rate eligible providers.

2.4 E-Rate 2.0 Modernization Order Provisions

This RFP requests fiber-based services based on the descriptions, cost and contract terms defined within the FCC December 2014 Second E-rate Modernization Order FCC 14-189.

CPPS request proposals for dark, lit or self-provisioned fiber networks.

Dark Fiber Proposal: It is the preference of CPPS for a dark fiber lease of fiber capacity that will be lit to provide the wide area network infrastructure for CPPS. The dark fiber lease will be evaluated for the purchase of fiber capacity separate from the service of lighting the fiber.

The response should include an additional proposal option for consideration that includes modulating electronics, services and maintenance associated with lighting the proposed dark fiber proposal based on the near (2016) and long-term (2020) bandwidth requirements of CPPS.

Lit Fiber Proposal: CPPS will equally evaluate proposals for lit fiber services with a cost evaluation of a base 10 years. A proposed lit fiber proposal should provide the bandwidth on the near (2016) and long-term (2020) bandwidth requirements of CPPS. See Appendix for campus level bandwidth requirements.

Self-Provisioned Fiber Proposals: It is the intent of CPPS to enter into a long term agreement for dark or lit fiber; however, CPPS will consider proposals that provide a special construction project for a CPPS owned fiber network, the equipment, the maintenance and the operations of high-speed broadband network. CPPS will compare any proposals for self-provisioned broadband network against the cost of lit service to the total cost of ownership over the life of the facility for self-construction option.

The proposal will include two options for cost models for all proposals including dark fiber, lit fiber and self-provisioned broadband network.

Option 1 (preferred): Provide up-front capital for new construction, special construction and fiber deployment with reduced monthly recurring cost to CPPS.

Option 2: Provide the non-recurring cost for the network deployment with a monthly recurring cost for usage, leasing, maintaining/operating the fiber.

On either option, CPPS request the option to pay up-front costs in installment payments over four years and E-rate to pay the full discounted share of up-front special construction charges in the first year.

Special Construction Project Terms

Proposals for a CPPS owned, self-provisioned broadband networks must meet all construction requirements, insurance, performance and payment bonds of a CPPS construction project. If a self-provisioned broadband network proposal is determined to be the most cost effective solution to meet the 10 year needs of CPPS, the CPPS construction departments and methods of CPPS will be invoked to manage and lead the project.

Competitive Bidding Considerations

- CPPS will conduct fair and open competitive bidding processes.
- CPPS will select the proposal which best meets the needs of the district.
- Price of eligible products and services are the most heavily weighted bid evaluation factor, 40%.
- CPPS has determine 10 years with the option for two, 5 year contract extensions as the most reasonable, defensible period of time for the comparison of the fiber proposals.
- CPPS is using a 10 year contract term with options for an additional 10 years through two (2), five year contract extension or will consider a 15 year contract term proposal based on an expected useful life of 20 years.
- CPPS will compare each a proposal option with comprehensive and specific total cost.
- While comparing fiber-option comparisons, CPPS will assume:
 - Applicants must be prepared to explain their assumptions, such as expected useful life.
 - CPPS will divide the total cost of an IRU, lease or self-provisioned fiber by number of years to determine annual cost.
 - CPPS will compare any dark or self-provisioned fiber proposals to annual lit fiber charge for the required bandwidth.
- CPPS will utilize all services proposed for the specific use of CPPS WAN.

2.5 Licensure & Insurance

The contract shall obtain and maintain all licenses, permits, liability insurance, workman's compensation insurance and comply with any and all other standards or regulations required by Federal, State, or local statutes, ordinances and rules during the performance of any contract between CPPS and the contractor. Any such requirement specifically set forth in any contract document between the contractor and CPPS shall be supplementary to this section and not in substitution thereof.

3.0 Goods and Services Specifications

3.1 CPPS Campus WAN Connectivity Service Points Specifications

3.1.1 CPPS Primary Network Service Points

The solution will provide a fiber based network solution from each campus to the Network Service Points of:

- Network Operations Center (NOC) at CPPS Central Office, 1961 Midway Avenue, Shreveport, LA, 71198.
- Students Network Operation Center (SNOC) at Northwood High School at 5939 Old Mooringsport Rd, Shreveport, LA 71107.

3.1.2 Additional Aggregation/Hub Sites Options

CPPS has three (3) additional facilities that can be considered in the overall fiber design for aggregation/hub sites:

- 3.1.2.1 Caddo Magnet High, 1601 Viking, Shreveport, LA 71101, 318.221.2501.
- 3.1.2.2 Captain Shreve, 6115 E. Kings, Shreveport, LA 71105, 318.865.7137.
- 3.1.2.3 Southwood, 9000 Walker Road, Shreveport, LA 71118, 318.686.9512.

3.2 Network Bandwidth Specifications

The solution will provide the near-term, implementation service, and long-term, estimated 2020, bandwidth requirements of the campuses based on the requirements table in Appendix 2.

The solution will be based on the near-term requirements but must provide the upgrade method and associated cost to the long term requirements.

If the solution provides a ring or multi-hub design for dark fiber or self-provisioned fiber, the bandwidth requirement of the aggregation/hub site connection to the NOC and SNOC must meet the sum of the near term requirements of the WAN bandwidth for the associated campuses to that ring/hub with the ability to upgrade to a bandwidth that meets the sum of the long-term requirements of the WAN bandwidth based on the total of the bandwidth to the NOC and SNOC.

3.3 Fiber-Based Network Solutions Specifications

The solution will provide a fiber based network with the connectivity and bandwidth service specifications defined within this RFP based on one of the following solutions:

3.3.1 Dark Fiber

Provide a single mode dark fiber network solution with two strands of fiber from each site to the service point. The response will provide a separate **detailed line item bill of materials, labor and costs** for the associated Ethernet transceivers and electronics to light the fiber based on bandwidth requirements of the site, distance and db loss budget design estimates.

3.3.2 Lit Fiber

Provide a lit fiber solution with either a Layer 1 network with associated Ethernet connectors, an optical wavelength lit fiber service with associated Ethernet connectors, or a lit fiber Ethernet service.

3.3.3 Self-Provisioned Broadband Network

Provide a proposal with a CPPS owned fiber network based on a special construction project with associated right away, easements, pole attachments, maintenance, repair and service of the network.

3.4 Ethernet Specifications

A proposal will provide a minimum of a 1 Gb or 10 Gb Ethernet connections for connectivity. The Ethernet connection type will be dependent on the proposed Fiber Based Network Solution to connect to the existing CPPS Ethernet equipment within the district as listed in Appendix.

3.5 Fiber Network Typology Specifications

The proposal will provide a minimum of a 1 Gb or 10 Gb Ethernet connections for connectivity based on the campus connectivity requirements. The connectivity is the sum of the connection to the NOC and the SNOC. The

proposal should provide a fiber solution based on the most optimal design of the provide but taking into consideration the bandwidth capacity, the associated modulating equipment and the service and support of the network based on lighting the fiber and maintaining both the fiber and the equipment. CPPS will consider both a Point to Point Fiber Typology and Ring Fiber Typology.

3.5.1 Point to Point Fiber Typology –

The proposed solution provides a Point to Point (PtP) connection from the campus to the NOC and from the campus to the SNOC. If additional aggregation sites are used, the solution provides a PtP connection from the campus to two aggregation sites. The aggregation sites must have a PtP connection to both the SNOC and the NOC with the bandwidth to meet the sum of the sights connected to the site. .

3.5.2 Ring Fiber Typology –

The proposal will provide an optical Dense Wavelength Division Multiplexing (DWDM) solution if the fiber is in a ring fiber typology. For dark fiber proposals, the modulating equipment required to light the dark fiber should be an optical wavelength solution based on active DWDM equipment. The proposal should be provide a separate proposal with the optical modulating equipment, installation and maintenance of the equipment. The proposal must include the solution and current cost to upgrade the network to the long term bandwidth (for example: the cost to upgrade from 1 GB optical connection to a 10 GB optical connection for the campus to the connection point.) The ring must be provide the bandwidth sum of the sights connected on the ring.

Network Typology examples are shown in Appendix 4: Fiber Network Typology

3.6 Modulating Equipment Specifications

The proposal will provide a minimum of a 1 Gb or 10 Gb Ethernet connections for connectivity based on the campus connectivity requirements shown in the Appendix. The connectivity is the sum of the connection to the NOC and the SNOC. The modulating equipment should provide a Ethernet connection to the district equipment. Based on the fiber typology, CPPS request the following modulating equipment for the dark fiber. The solution can include a combination of both solution. .

3.6.1 Modulating Equipment Point to Point Fiber Typology –

In the case of a PtP fiber typology, the solution should provide a Cisco Systems or compatible, single mode fiber LC SFP connection for both termination points. The solution should provide the SFP required based on the fiber distances. The proposed solution provides a Point to Point (PtP) connection from the campus to the NOC and from the campus to the SNOC. If additional aggregation sites are used, the solution provides a PtP connection from the campus to two aggregation sites. The aggregation sites must have a PtP connection to both the SNOC and the NOC with the bandwidth to meet the sum of the sights connected to the site.

3.6.2 Modulating Equipment for Ring Fiber Typology –

In the case of a Ring fiber typology, the solution should provide Dense Wave Division Multiplexing solution with the aggregate bandwidth of the ring to total the sum of the near term and long term bandwidth requirements of the campuses connected to the ring. The proposal will provide an optical Dense Wavelength Division Multiplexing (DWDM) solution if the fiber is in a ring fiber typology. For dark fiber proposals, the modulating equipment required to light the dark fiber should be an optical wavelength solution based on active DWDM equipment. The proposal should be provide a separate proposal with the optical modulating equipment, installation and maintenance of the equipment. The proposal must include the solution and current cost to upgrade the network to the long term bandwidth (for example: the cost to upgrade from 1 GB optical connection to a 10 GB optical connection for the campus to the connection point.) The ring must be provide the bandwidth sum of the sights connected on the ring.

3.7 Additions and Deletion of Sites on the Fiber Network.

The proposal will provide a solution to add and delete sites from the network.

3.8 Technical Specifications.

This proposal is comprehensive and the service must be provided to both locations for an acceptable proposal.

Leased Dark Fiber will be the allocation of two strands of single mode fiber from a vendor's fiber network to connect the campuses to the designated service location. All fiber pairs will be lit and utilized fully to provide bandwidth and

access to services.

Estimated Cable Performance of Proposed Solution

CPPS will evaluate the goods and services based on the typology and the cost of the modulating equipment to light the fiber in addition to the maintenance and operations of the fiber and the associated equipment.

The proposal estimated Link Power Budget of the proposed cable network. The Vendor will provide the estimated Operating Distances of each link. The Vendor will provide an Estimated Link Performance at 1310 nm and 1550 nm based on Splice Losses and two (2) connections with the minimum information and in a similar format listed in the table below:

Originating	Destination	No	Cum.	1310nm	1550nm	
				Cum.	Cum.	
Campus	Frame	Fiber	Length	dB Loss	dB Loss	Structure
Caddo Magnet HS	FR-00287	45-46	9,879	4.99	2.58	CMHS-5150
Northwood HS	FR-00211	61-62	19,087	3.81	3.69	NHS-5150

Actual test results will also be provided in a similar format following installation.

Fiber Terminations, Cross Connect and End to End Service

CPPS Facilities: The service will be terminated in the facilities Main Communication (MC) closet in the network rack. The service may be terminated on an existing single mode fiber panel or the proposal may include a new fiber panel within the existing telecommunication rack.

Conduit Access into Facilities

The service provider will provide the conduit and routing from the public right away onto CPPS facility. The cable will terminate into the CPPS Main Communication closets at each facility via two separate pathways into the facility.

Service Level Agreement

- Vendor will provide a description of the proposed services provided with the dark fiber proposal and the Service Levels for the proposed services during the term of the contract. The vendor will provide a proposed Service Level Agreement (SLA) with the RFP response. The proposal should include, but not be limited to, the following services.
- Network Availability: the provider will make all reasonable efforts to ensure 99.9% network availability of the Applicable Fiber.
- Network Operations Center: Solution will provide customer support functions including problem tracking, resolution and escalation support management on a 24x7x365 basis. Customer has the right and is encouraged to call concerning any problems that may arise relative to its connection with Vendor provided services.
- Trouble Reporting and Response: Upon interruption, degradation or loss of service, Customer may contact Vendor by defined method with a response based on trouble level. Upon contact from the Customer, the Vendor support team will initiate an immediate response to resolve any Customer issue. Customer will receive rapid feedback on trouble resolution, including potential resolution time.
- Escalation: In the event that service has not been restored in a timely manner, or the Customer does not feel that adequate attention has been allocated, the Customer can escalate the trouble resolution by request. A list of escalation contacts will be provided when implementation schedule is completed.
- Resolution: The Customer will be notified immediately once the problem is resolved and will be asked for verbal closure of the incident.
- Trouble Reporting, Escalation and Resolution: A detail trouble reporting, escalation and resolution plan will be provided to the district.
- Measurement: Vendor stated commitment is to respond to any outage within two (2) hours and a four (4) hour restoration of service. Time starts from the time the Customer contacts Vendor and identifies the problem. Credits for Outages of shortage will be identified.
- Reports: Upon request, an incident report will be made available to the Customer within five (5) working days of resolution of the trouble.
- Link Performance: The service will maintain the proposed Link Performance throughout the term of the contract.

Maintenance

For a dark and lit fiber solution, it is assumed that the Fiber Network is part of a more comprehensive fiber infrastructure of the service provider. The vendor will include only the portion of maintenance that is required to support the CPPS fiber segments verses overall network maintenance. If the fiber serves multiple customers, the cost of maintenance should be shared among all the recipients. Twenty-Four by Seven: Vendor shall maintain the Applicable Fiber seven days per week, twenty-four hours per day, at no additional cost to The District. Maintenance services will be provided either by Vendor or by affiliates or contractors. Response Time: Upon notification from The District of a malfunction relating to the Applicable Fiber, Vendor shall respond to such malfunction within two (2) hours and thereafter proceed to correct the malfunction with reasonable diligence. Malfunction Defined: As used herein, a "malfunction" shall mean the failure of the Fiber Network or any portion thereof to meet the specifications agreed upon in contract. Other maintenance cost must be identified and categorized as E-Rate eligible or ineligible.

3.0 PROPOSED TERMS

3.1 Dark Fiber Lease Agreement

- a) CPPS considers lit and dark fiber as infrastructure and request a one-time cost for any construction or capital cost associated with the proposed services. A monthly recurring will be considered for the service that includes the district portion of the maintenance of the use of the network service.
- b) Fiber Network: CPPS desires to contract for the use of a Dark Fiber service to connect the district properties listed. It is assumed that the Fiber Network is part of a more comprehensive fiber infrastructure of the service provider. The Fiber Network is and shall remain the property of the Vendor or its assigns and The District's interest is only that of a lessee or contractor.
- c) Fiber Network: CPPS desires to contract for the use of a two strand Dark Fiber to connect the district properties listed. The "Fiber Network", as used herein, shall refer only to two strands of fiber per each connection and does not include any network electronic equipment, onsite or throughout the fiber system, of the vendor or any other part of fiber infrastructure of the vendor.
- d) Term: Because the Fiber Network will be able to support immediate and long term needs of The District, the term of the contract of ten (10) years unless a valid justification can be presented for alternative contract term lengths.
- e) Commencement: The term of contract shall commence on July 1 of each stated construction year. Hence, the fiber must be made available to CPPS at least one month prior to that date to allow for "lighting of the fiber network for the commencement date. From the 6th Order, leased dark fiber must be lit during the funding year in which it is requested to be eligible. The Commission will not pay for charges until the service is lit.
- f) Termination: The term of the contract shall end on the June 30th of the last year of the contract. Based on the commencement date, the actual usage of the Fiber Network on the last year of the contract will be prorated based on the amount of usage unless sooner terminated in accordance with the agreed upon termination terms and provisions of a signed contract. Right of Renewal: At the end of the initial term, this Agreement may be renewed annually for up to five (5) additional years, under the same terms and conditions contained in this Agreement including, but not limited to the recurring monthly rates and payment terms, unless either party gives thirty (30) days written notice, sent via certified mail, return receipt requested, of its intent to cancel this Agreement.
- g) Location Additions: CPPS requires the right to add additional properties (locations) to the Fiber Network based on comparable pricing and maintenance agreements as agreed upon in negotiations.
- h) Location Deletions: CPPS requires the right to delete properties (locations) to the Fiber Network based on comparable pricing and maintenance agreements as agreed upon in negotiations.

3.2 Vendor Provided Information

- a) The Vendor will provide the following summary information proposed within the RFP response. This summary information should be accompanied with the detail cost proposals as specified within the RFP.
- b) All offers should include a technical description of services proposed.
- c) All offers should include a Bill of Materials if network electronics are included in the non-recurring charge.
- d) All offers should include e-rate information for evaluation including the service type: telecommunications, internet access or internal connection, a break down into eligible and ineligible e-rate cost and the providers Service Provider Information Number (SPIN).
- e) A detailed price breakdown associated to the provider billing, cost model and maintenance model.
- f) A detailed timeline of the work to be completed and an estimated completion date.

4.0 COST SUMMARY OF EACH OFFERING

The vendor will provide a cost summary on the forms below for the associated service request. The information requested below is the minimum that will be accepted. Vendor will submit one (1) original and three (3) complete copies of the proposal and (1) complete ELECTRONIC proposal included with the submission.

4.1 Proposals.

The proposal will provide a solution from each campus listed in the Appendix for connectivity to the associated Network Aggregation Site. This proposal is comprehensive and the service must be provided to both locations as requested for an acceptable proposal. Supporting line item cost details must accompany summary cost proposal.

Line Item: Dark Fiber Network	Example:	
Service Description:	Dark Fiber	
Length of Contract:	10 Years	
One Time Cost	\$1,000,000	
Yearly Cost	\$60,000	
Total 10 Year Cost:	\$1,600,000	

Modulating Equipment to Light the Fiber

A detailed BOM must be included with the installation services, maintenance and support included as line item options within the proposal.

Modulating Equipment and Services	One Time	Yearly	Totals
Equipment Cost:			
Installation (if DWDM)			
Configuration (if DWDM)			
Yearly Maintenance			
Yearly Support Option			
Total			

4.2 Proposal Line Item Summary.

Complete pricing by campus, include detailed bill of materials with proposal.

School Name	Dark or Lit			Lit Option		% Erate Elible
	Total Cost: \$	\$	\$	\$	\$	
	NRC	MRC	Other (Describe)	Year 1	Year 2	
A. C. STEERE ELEM	\$	\$	\$	\$	\$	%
ACADEMIC RECOVERY OMBUDSMAN	\$	\$	\$	\$	\$	%
ALEXANDER LEARNING CENTER	\$	\$	\$	\$	\$	%
ARTHUR CIRCLE ELEM	\$	\$	\$	\$	\$	%
ATKINS TECH ELEM	\$	\$	\$	\$	\$	%
BARRET PAIDEIA ACAD	\$	\$	\$	\$	\$	%
BLANCHARD ELEM	\$	\$	\$	\$	\$	%
BOOKER T. WASHINGTON NEW TECH HS	\$	\$	\$	\$	\$	%
BROADMOOR MIDDLE LAB SCHOOL	\$	\$	\$	\$	\$	%
C.E. BYRD HS	\$	\$	\$	\$	\$	%
CADDO CAREER & TECH CENTER	\$	\$	\$	\$	\$	%
CADDO HEIGHTS MATH/SCIENCE ELEM	\$	\$	\$	\$	\$	%
CADDO MIDDLE CAREER AND TECH	\$	\$	\$	\$	\$	%
CADDO PARISH MAGNET HS	\$	\$	\$	\$	\$	%
CADDO PARISH MIDDLE MAGNET	\$	\$	\$	\$	\$	%
CAPTAIN SHREVE HS	\$	\$	\$	\$	\$	%
CHEROKEE PARK ELEM	\$	\$	\$	\$	\$	%
CLAIBORNE FUNDAMENTAL ELEM	\$	\$	\$	\$	\$	%
COMMUNITY OMBUDSMAN	\$	\$	\$	\$	\$	%
CRESWELL ELEM	\$	\$	\$	\$	\$	%
DONNIE BICKHAM MIDDLE SCHOOL	\$	\$	\$	\$	\$	%
E.B. WILLIAMS STONER HILL ELEM LAB	\$	\$	\$	\$	\$	%
EDEN GARDENS FUNDAMENTAL ELEM	\$	\$	\$	\$	\$	%
EIGHTY-FIRST STREET ECE CENTER	\$	\$	\$	\$	\$	%
FAIR PARK COLLEGE PREP ACAD	\$	\$	\$	\$	\$	%
FAIRFIELD MAGNET SCHOOL	\$	\$	\$	\$	\$	%
FOREST HILL ELEM	\$	\$	\$	\$	\$	%
GREEN OAKS PERFORMING ARTS ACAD	\$	\$	\$	\$	\$	%
HERNDON MAGNET SCHOOL	\$	\$	\$	\$	\$	%
HUNTINGTON HS	\$	\$	\$	\$	\$	%
J. S. CLARK ELEM	\$	\$	\$	\$	\$	%
JACK P. TIMMONS ELEM	\$	\$	\$	\$	\$	%
JUDSON FUNDAMENTAL ELEM	\$	\$	\$	\$	\$	%
KEITHVILLE ELEM/MIDDLE SCHOOL	\$	\$	\$	\$	\$	%
LAKESHORE ELEM	\$	\$	\$	\$	\$	%

MAGNOLIA SCHOOL OF EXCELLENCE	\$	\$	\$	\$	\$	%
MIDWAY PROF DEV CENTER	\$	\$	\$	\$	\$	%
MOORETOWN ELEM PROF DEV CTR.	\$	\$	\$	\$	\$	%
MOORINGSPORT ELEM	\$	\$	\$	\$	\$	%
NEWTON SMITH 6TH GRADE CENTER	\$	\$	\$	\$	\$	%
NORTH CADDO HS	\$	\$	\$	\$	\$	%
NORTH HIGHLANDS ELEM	\$	\$	\$	\$	\$	%
NORTHSIDE ELEM	\$	\$	\$	\$	\$	%
NORTHWOOD HS	\$	\$	\$	\$	\$	%
OAK PARK MICROSOCIETY ELEM	\$	\$	\$	\$	\$	%
OIL CITY MAGNET SCHOOL	\$	\$	\$	\$	\$	%
PINE GROVE ELEM	\$	\$	\$	\$	\$	%
QUEENSBOROUGH ELEM	\$	\$	\$	\$	\$	%
RIDGEWOOD MIDDLE SCHOOL	\$	\$	\$	\$	\$	%
RIVERSIDE ELEM	\$	\$	\$	\$	\$	%
SHREVE ISLAND ELEM	\$	\$	\$	\$	\$	%
SHREVEPORT JOB CORPS CENTER	\$	\$	\$	\$	\$	%
SOUTH HIGHLANDS ELEM MAGNET	\$	\$	\$	\$	\$	%
SOUTHERN HILLS ELEM	\$	\$	\$	\$	\$	%
SOUTHWOOD HS	\$	\$	\$	\$	\$	%
SUMMER GROVE ELEM	\$	\$	\$	\$	\$	%
SUMMERFIELD ELEM	\$	\$	\$	\$	\$	%
SUNSET ACRES ELEM	\$	\$	\$	\$	\$	%
TURNER ELEM/6TH GRADE ACAD	\$	\$	\$	\$	\$	%
UNIVERSITY ELEM	\$	\$	\$	\$	\$	%
VIVIAN ELEM/MIDDLE SCHOOL	\$	\$	\$	\$	\$	%
WALNUT HILL ELEM/MIDDLE SCHOOL	\$	\$	\$	\$	\$	%
WERNER PARK ELEM	\$	\$	\$	\$	\$	%
WESTWOOD ELEM	\$	\$	\$	\$	\$	%
WOODLAWN LEADERSHIP ACAD	\$	\$	\$	\$	\$	%
YOUREE DR. MIDDLE ADV MAGNET	\$	\$	\$	\$	\$	%
CADDO CENTRAL OFFICE	\$	\$	\$	\$	\$	%
CPPS MAINTENANCE/WAREHOUSE	\$	\$	\$	\$	\$	%
EMPLOYEE ASSISTANCE PROGRAM	\$	\$	\$	\$	\$	%
WEST SHREVEPORT STUDENT CENTER	\$	\$	\$	\$	\$	%
LIBRARY PROCESSING CENTER	\$	\$	\$	\$	\$	%
NORTH CADDO BUS BARN/GARAGE	\$	\$	\$	\$	\$	%
ATTENDANCE DEPARTMENT AT CENTAL	\$	\$	\$	\$	\$	%

5.0 PROPOSAL FORM

5.1 Proposer Information

- 1. Company Name _____
- 2. Legal Name (if different) _____
- 3. Years in Business Under Name _____
- 4. Years installing similar systems _____
- 5. Contact Person _____
- 6. Full Mailing Address _____
- 7. Address Line 2 _____
- 8. Telephone Number _____
- 9. Fax Number _____
- 10. Email Address/Web Site _____
- 11. Number of Full-time employees _____
- 12. Number of Full Time Technical Personnel _____
- 13. Project Manager Name _____
- 14. Attached personnel resumes of Project Team _____ (YES) _____ (NO)
- 15. SPIN _____

5.2 References

To be a qualified Proposer, the vendor must include below three references with similar systems or equipment installed. Preference will be given to vendors with references for implementations at organizations most similar to CPPS. Include separate sheet(s) containing supporting documentation regarding reference projects if available.

REFERENCE #1

1. Organization Name _____
2. Contact Person(s) _____
3. Full Mailing Address _____
4. Address Line 2 _____
5. Telephone Number _____
6. Fax Number _____
7. Project Dates _____
8. Brief Description (attach detail) _____

REFERENCE #2

1. Organization Name _____
2. Contact Person(s) _____
3. Full Mailing Address _____
4. Address Line 2 _____
5. Telephone Number _____
6. Fax Number _____
7. Project Dates _____
8. Brief Description (attach detail) _____

REFERENCE #3

1. Organization Name _____
2. Contact Person(s) _____
3. Full Mailing Address _____
4. Address Line 2 _____
5. Telephone Number _____
6. Fax Number _____
7. Project Dates _____
8. Brief Description (attach detail) _____

5.3 Proposer Subcontractors/Partners

Every subcontractor shall be bound by the applicable terms and provisions of the contract documents. Further information about the subcontractor/partner may be requested prior to award. Identify all subcontractors or partners used for this project. Include separate sheet(s) labeled "Subcontractors/Partners" if necessary.

Subcontractor/Partner #1

- 1. Organization Name _____
- 2. Years in Business Under Name _____
- 3. Years installing similar systems _____
- 4. Contact Person _____
- 5. Project Function _____

Subcontractor/Partner #2

- 1. Organization Name _____
- 2. Years in Business Under Name _____
- 3. Years installing similar systems _____
- 4. Contact Person _____
- 5. Project Function _____

Appendix 1: CPPS Campus and Facility List

Type	School Name	Street Address	City	State	ZIP	Pop
05	A. C. STEERE ELEM	4009 YOUREE DRIVE	SHREVEPORT	LA	71105	472
12	ACADEMIC RECOVERY OMBUDSMAN	401 NORTH HOLZMAN	SHREVEPORT	LA	71101	
12	ALEXANDER LEARNING CENTER	1545 COTY STREET	SHREVEPORT	LA	71101	179
05	ARTHUR CIRCLE ELEM	261 ARTHUR AVENUE	SHREVEPORT	LA	71105	456
05	ATKINS TECH ELEM	7611 ST.VINCENT AVENUE	SHREVEPORT	LA	71106	395
05	BARRET PAIDEIA ACAD	2600 BARRET STREET	SHREVEPORT	LA	71104	319
05	BLANCHARD ELEM	402 BIRCH AVENUE	SHREVEPORT	LA	71107	591
12	BOOKER T. WASHINGTON NEW TECH HS	2104 MILAM STREET	SHREVEPORT	LA	71103	735
08	BROADMOOR MIDDLE LAB SCHOOL	441 ATLANTIC STREET	SHREVEPORT	LA	71105	621
12	C.E. BYRD HS	3201 LINE AVENUE	SHREVEPORT	LA	71104	2237
12	CADDO CAREER & TECH CENTER	5950 UNION AVENUE	SHREVEPORT	LA	71108	-
05	CADDO HEIGHTS MATH/SCIENCE ELEM	1702 CORBITT STREET	SHREVEPORT	LA	71108	626
08	CADDO MIDDLE CAREER AND TECH	6310 CLIFT STREET	SHREVEPORT	LA	71106	654
12	CADDO PARISH MAGNET HS	1601 VIKING DRIVE	SHREVEPORT	LA	71101	1232
08	CADDO PARISH MIDDLE MAGNET	7635 CORNELIOUS DRIVE	SHREVEPORT	LA	71106	1262
12	CAPTAIN SHREVE HS	6115 EAST KINGS HIGHWAY	SHREVEPORT	LA	71105	1263
05	CHEROKEE PARK ELEM	2010 EAST ALGONQUIN TRAIL	SHREVEPORT	LA	71107	411
05	CLAIBORNE FUNDAMENTAL ELEM	2345 CLAIBORNE AVENUE	SHREVEPORT	LA	71103	351
12	COMMUNITY OMBUDSMAN	1020 SHREVEPORT BARKSDALE HWY	SHREVEPORT	LA	71105	
05	CRESWELL ELEM	2901 CRESWELL AVENUE	SHREVEPORT	LA	71104	472
08	DONNIE BICKHAM MIDDLE SCHOOL	7240 OLD MOORINGSPOUR ROAD	SHREVEPORT	LA	71107	725
05	E.B. WILLIAMS STONER HILL ELEM LAB	2127 C. E. GALLOWAY BOULEVARD	SHREVEPORT	LA	71104	218
05	EDEN GARDENS FUNDAMENTAL ELEM	626 EDEN BOULEVARD	SHREVEPORT	LA	71106	474
KG	EIGHTY-FIRST STREET ECE CENTER	8108 FAIRFIELD AVENUE	SHREVEPORT	LA	71106	169
12	FAIR PARK COLLEGE PREP ACAD	3222 GREENWOOD ROAD	SHREVEPORT	LA	71109	1192
05	FAIRFIELD MAGNET SCHOOL	6215 FAIRFIELD AVENUE	SHREVEPORT	LA	71106	434
05	FOREST HILL ELEM	2005 FRANCAIS DRIVE	SHREVEPORT	LA	71118	679
12	GREEN OAKS PERFORMING ARTS ACAD	2550 THOMAS E. HOWARD DRIVE	SHREVEPORT	LA	71107	630
08	HERNDON MAGNET SCHOOL	11845 GAMM ROAD	BELCHER	LA	71004	702
12	HUNTINGTON HS	6801 RASBERRY LANE	SHREVEPORT	LA	71129	1096
05	J. S. CLARK ELEM	351 HEARNE AVENUE	SHREVEPORT	LA	71103	
05	JACK P. TIMMONS ELEM	1410 GREENWOOD-MOORINGSPOUR	SHREVEPORT	LA	71107	307
05	JUDSON FUNDAMENTAL ELEM	3809 JUDSON STREET	SHREVEPORT	LA	71109	425
08	KEITHVILLE ELEM/MIDDLE SCHOOL	12201 MANSFIELD ROAD	KEITHVILLE	LA	71047	995
05	LAKESHORE ELEM	1807 SAN JACINTO STREET	SHREVEPORT	LA	71109	547
12	MAGNOLIA SCHOOL OF EXCELLENCE	3321 YOUREE DRIVE	SHREVEPORT	LA	71105	
05	MIDWAY PROF DEV CENTER	3840 GREENWOOD ROAD	SHREVEPORT	LA	71109	291
05	MOORETOWN ELEM PROF DEV CTR.	3913 POWELL STREET	SHREVEPORT	LA	71109	258
05	MOORINGSPOUR ELEM	Jennings Street	MOORINGSPOUR	LA	71060	263
06	NEWTON SMITH 6TH GRADE CENTER	3000 MARTIN LUTHER KING JR. DR	SHREVEPORT	LA	71107	178
12	NORTH CADDO HS	201 AIRPORT DRIVE	VIVIAN	LA	71082	311
05	NORTH HIGHLANDS ELEM	885 POLEMAN ROAD	SHREVEPORT	LA	71107	494
05	NORTHSIDE ELEM	1950 NORTHSIDE ROAD	SHREVEPORT	LA	71107	400
12	NORTHWOOD HS	5939 OLD MOORINGSPOUR ROAD	SHREVEPORT	LA	71107	951
07	OAK PARK MICROSOCIETY ELEM	4331 HENRY STREET	SHREVEPORT	LA	71109	432
08	OIL CITY MAGNET SCHOOL	407 N Kerley Ave	OIL CITY	LA	71061	387
05	PINE GROVE ELEM	1700 CALDWELL STREET	SHREVEPORT	LA	71107	466
05	QUEENSBOROUGH ELEM	2701 CATHERINE STREET	SHREVEPORT	LA	71109	409
08	RIDGEWOOD MIDDLE SCHOOL	2001 RIDGEWOOD DRIVE	SHREVEPORT	LA	71118	607
05	RIVERSIDE ELEM	625 DIXIE GARDEN DRIVE	SHREVEPORT	LA	71105	450
05	SHREVE ISLAND ELEM	836 SEWANNE PLACE	SHREVEPORT	LA	71105	797
12	SHREVEPORT JOB CORPS CENTER	2815 LILLIAN STREET	SHREVEPORT	LA	71109	304
05	SOUTH HIGHLANDS ELEM MAGNET	831 ERIE STREET	SHREVEPORT	LA	71106	477

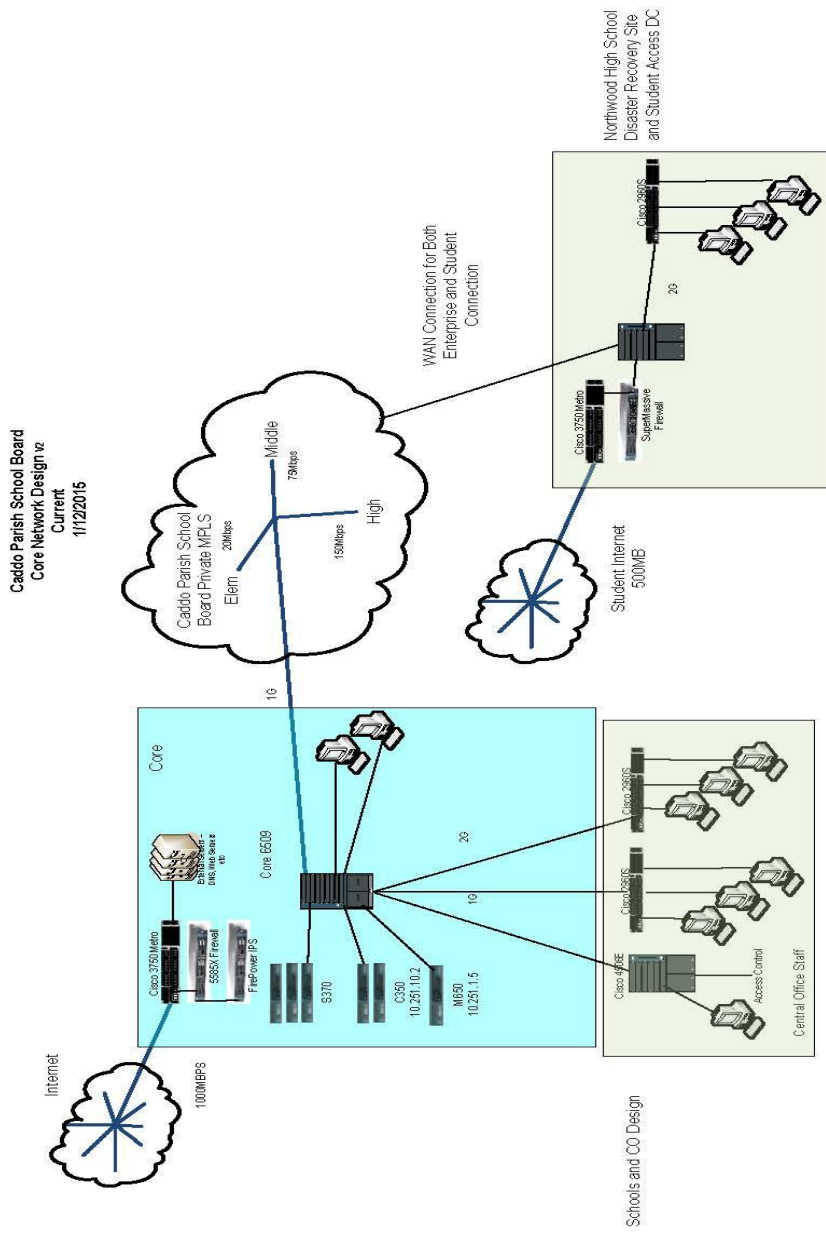
05	SOUTHERN HILLS ELEM	9075 KINGSTON ROAD	SHREVEPORT	LA	71118	816
12	SOUTHWOOD HS	9000 WALKER ROAD	SHREVEPORT	LA	71118	1286
05	SUMMER GROVE ELEM	2955 BERT KOUNS INDUSTRIAL LOO	SHREVEPORT	LA	71118	768
05	SUMMERFIELD ELEM	3131 ARDIS TAYLOR DRIVE	SHREVEPORT	LA	71118	721
05	SUNSET ACRES ELEM	6514 WEST CANAL BOULEVARD	SHREVEPORT	LA	71108	566
06	TURNER ELEM/6TH GRADE ACAD	5904 WEST 70TH STREET	SHREVEPORT	LA	71129	1182
05	UNIVERSITY ELEM	9900 SMITHERMAN DRIVE	SHREVEPORT	LA	71115	985
08	VIVIAN ELEM/MIDDLE SCHOOL	100 WEST KENTUCKY AVENUE	VIVIAN	LA	71082	612
08	WALNUT HILL ELEM/MIDDLE SCHOOL	9360 WOOLWORTH ROAD	SHREVEPORT	LA	71129	1774
05	WERNER PARK ELEM	2715 CORBITT STREET	SHREVEPORT	LA	71108	474
05	WESTWOOD ELEM	7325 JEWELLA AVENUE	SHREVEPORT	LA	71108	459
12	WOODLAWN LEADERSHIP ACAD	7340 WYNGATE DRIVE	SHREVEPORT	LA	71106	1076
08	YOUREE DR. MIDDLE ADV MAGNET	6008 YOUREE DRIVE	SHREVEPORT	LA	71105	1146
NIF	CADDO CENTRAL OFFICE	1961 MIDWAY AVENUE	SHREVEPORT	LA	71130	
NIF	CPPS MAINTENANCE/WAREHOUSE	7300 W. BERT KOUNS IN	SHREVEPORT	LA	71129	
NIF	EMPLOYEE ASSITANCE PROGRAM	2829 YOUREE DR #3	SHREVEPORT	LA	71104	
NIF	WEST SHREVEPORT STUDENT CENTER	2226 MURPHY ST	SHREVEPORT	LA	71009	
NIF	LIBRARY PROCESSING CENTER	5801 WEST 70TH	SHREVEPORT	LA	71129	
NIF	NORTH CADDO BUS BARN/GARAGE	105 AIRPORT ROAD	VIVIAN	LA	71082	
NIF	ATTENDANCE DEPARTMENT AT CENTAL	1627 WEINSTOCK	SHREVEPORT	LA	71103	

Appendix 2: CPPS Bandwidth Requirements and Assumptions

Campus	Short Term WAN Mb	Long Term WAN Mb
ARTHUR CIRCLE ELEM SCHOOL	510	5100
ATKINS TECH ELEM SCHOOL	444	4441
BARRET PAIDEIA ACADEMY	296	2964
BLANCHARD ELEM SCHOOL	581	5812
BROADMOOR MIDDLE LAB SCHOOL	646	6460
C.E. BYRD HS	2450	24501
CADDO HEIGHTS MATH/SCIENCE ELEM SCHOOL	665	6651
CAPTAIN SHREVE HS	1443	14429
CENTRAL ELEM SCHOOL	300	2996
CHEROKEE PARK ELEM SCHOOL	435	4346
CLAIBORNE FUNDAMENTAL ELEM SCHOOL	378	3783
CRESWELL ELEM SCHOOL	507	5068
EDEN GARDENS FUNDAMENTAL ELEM SCHOOL	507	5068
CADDO PARISH MIDDLE MAGNET SCHOOL	1311	13111
EIGHTY-FIRST STREET ECE CENTER	179	1785
FAIRFIELD MAGNET SCHOOL	453	4526
FAIR PARK COLLEGE PREP HS	1141	11411
FOREST HILL ELEM SCHOOL	766	7661
GREEN OAKS PERFORMING ARTS ACADEMY	672	6715
HERNDON MAGNET SCHOOL	776	7756
CADDO MIDDLE CAREER AND TECH SCHOOL	833	8330
HUNTINGTON HS	1238	12378
JUDSON FUNDAMENTAL ELEM SCHOOL	469	4686
LAKESHORE ELEM SCHOOL	585	5854
MOORETOWN ELEM PROF DEVELOP. SCH	289	2890
MOORINGSPORT ELEM SCHOOL	326	3262
NORTH CADDO HS	346	3464
NORTH HIGHLANDS ELEM SCHOOL	495	4951
NORTHSIDE ELEM SCHOOL	456	4558
NORTHWOOD HS	1037	10370
OAK PARK MICROSOCIETY ELEM SCHOOL	438	4378
OIL CITY MAGNET SCHOOL	367	3666
PINE GROVE ELEM SCHOOL	539	5387
QUEENSBOROUGH ELEM SCHOOL	443	4431
RIDGEWOOD MIDDLE SCHOOL	629	6290
RIVERSIDE ELEM SCHOOL	485	4845
SOUTH HIGHLANDS ELEM MAGNET SCHOOL	507	5068
SOUTHERN HILLS ELEM SCHOOL	874	8744
SOUTHWOOD HS	1360	13600
A. C. STEERE ELEM SCHOOL	507	5068
E.B. WILLIAMS STONER HILL ELEM LAB SCHOOL	258	2582
SUMMERFIELD ELEM SCHOOL	777	7767
SUMMER GROVE ELEM SCHOOL	780	7799
SUNSET ACRES ELEM SCHOOL	601	6014
JACK P. TIMMONS ELEM SCHOOL	311	3113
UNIVERSITY ELEM SCHOOL	1027	10274
VIVIAN ELEM/MIDDLE SCHOOL	655	6545

WALNUT HILL ELEM/MIDDLE SCHOOL	1886	18859
BOOKER T. WASHINGTON NEW TECH HS	689	6885
WERNER PARK ELEM SCHOOL	560	5599
MRS. EDDIE JONES W SHREVEPORT ELEM SCH.	458	4579
WESTWOOD ELEM SCHOOL	532	5323
WOODLAWN LEADERSHIP ACADEMY	1093	10933
YOUREE DR. MIDDLE ADV MAGNET SCHOOL	1214	12144
CADDO CAREER & TECHNICAL CENTER	37	374
MIDWAY PROF DEVELOPMENT CENTER	304	3039
SHREVEPORT JOB CORPS OPP CENTER	296	2964
CADDO PARISH MAGNET HS	1243	12431
SHREVE ISLAND ELEM SCHOOL	852	8521
TURNER ELEM/MIDDLE SCHOOL	1264	12644
HAMILTON TERRACE LEARNING CENTER	221	2210
ALEXANDER LEARNING CENTER	158	1583
DONNIE BICKHAM MIDDLE SCHOOL	750	7501
KEITHVILLE ELEM/MIDDLE SCHOOL	1144	11443
ACADEMIC RECOVERY AND CAREER CENTER	209	2093
NEWTON SMITH 6TH GRADE ACADEMY	306	3060

Appendix 3: CPPS Network Equipment for Ethernet Interface



Below are examples of Network Topology Solutions.
Submitted proposals will include proposed network topology design documents.

Intra-District Wide Area Network Direct Connect Multipoint

Advantages:

Allows the District to Build Upon an Existing Hub and Spoke (Star) Fiber Design.

Provides the highest amount of bandwidth to services to the campus level.

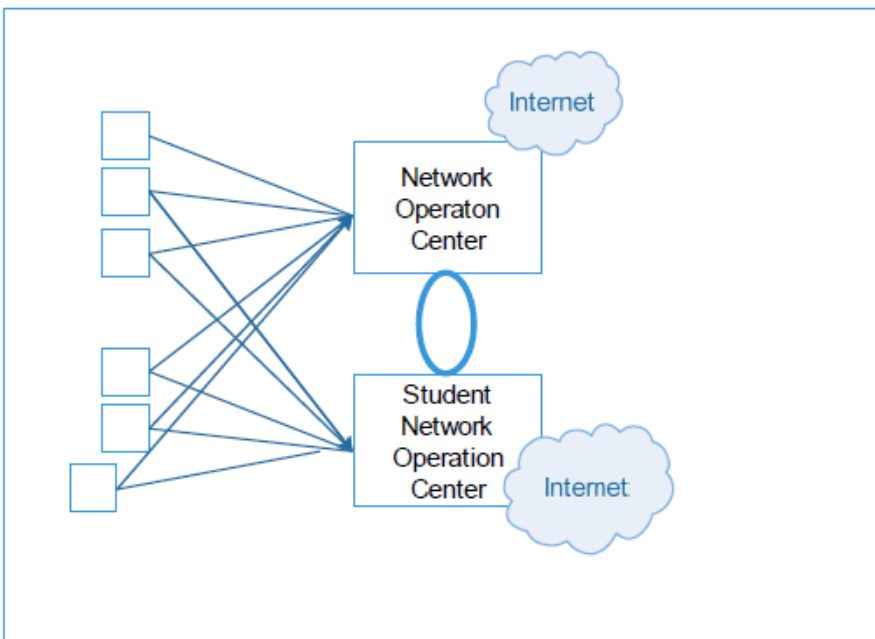
Lowers overall cost of network electronics verses Ring/Aggregation Site Models.

Provides the ability to add capacity and build reliability within the Network.

Disadvantages:

In new fiber networks builds, the direct connect increases the cost and amount of fiber over a Metro Area.

In the direct fiber build into a CNDC scenerio, the are many considerations and design requirements that need to be addressed to align the fiber and CNDC Contracts, .



Intra-District Wide Area Network Multipoint Hub Aggregation Design for Network Fiber

Advantages:

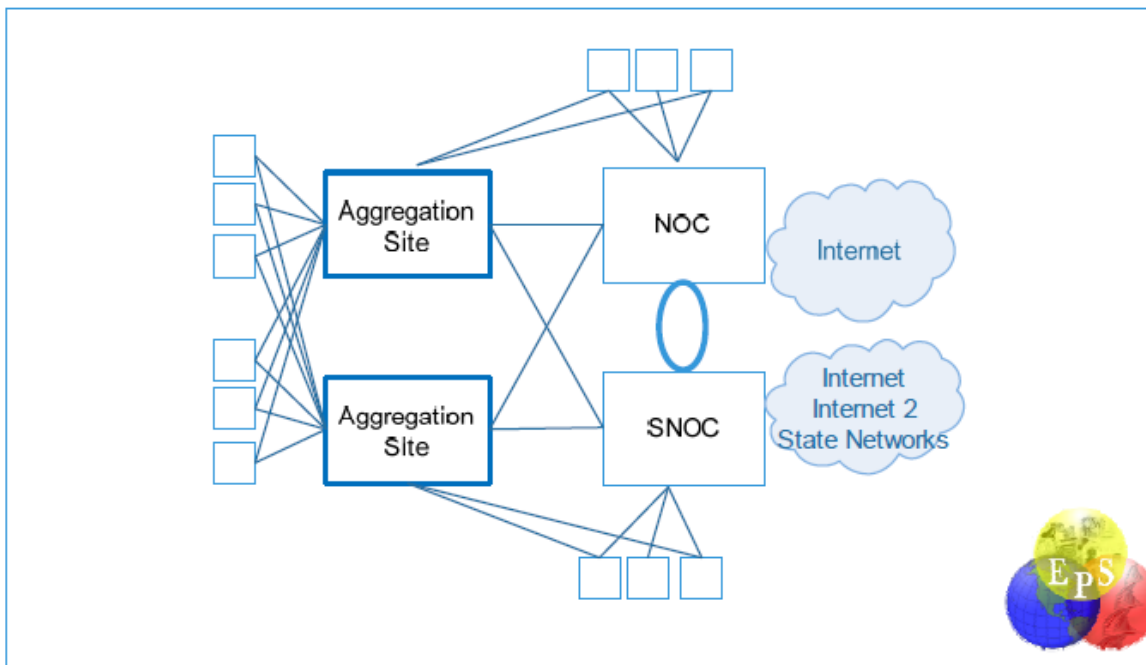
Can decrease Fiber Backbone Requirements.

Can support districts with larger geographic or diverse geographic campus locations.

Disadvantages:

Cost of Network Electronics to Build Aggregation Sites.

May be difficult to scale Aggregation Site Backbone Bandwidth needed to support campuses.



Intra-District Wide Area Network (Metro Area Network) Ring Design for Network Fiber

Advantages:

Decrease fiber requirements and increase fiber cost.

Ability to build highly resilient networks with limited fiber.

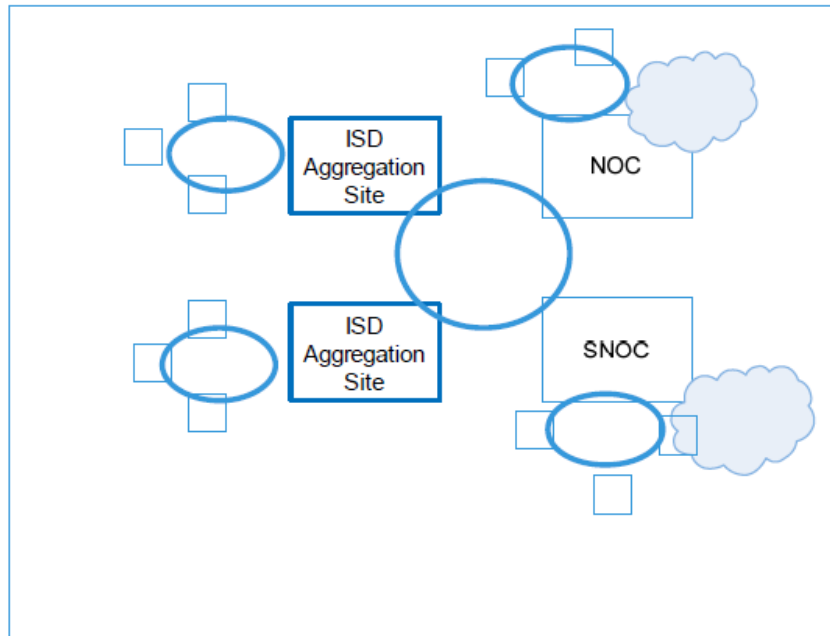
Decrease distances between sites.

Disadvantages:

Limited bandwidth without increase technology cost (DWDM) or comparable technology.

Interdependencies of sites on overall design.

The design is optimal for DWDM/MPLS technology verses pure Ethernet - may require an additional layer of technology within the district network.

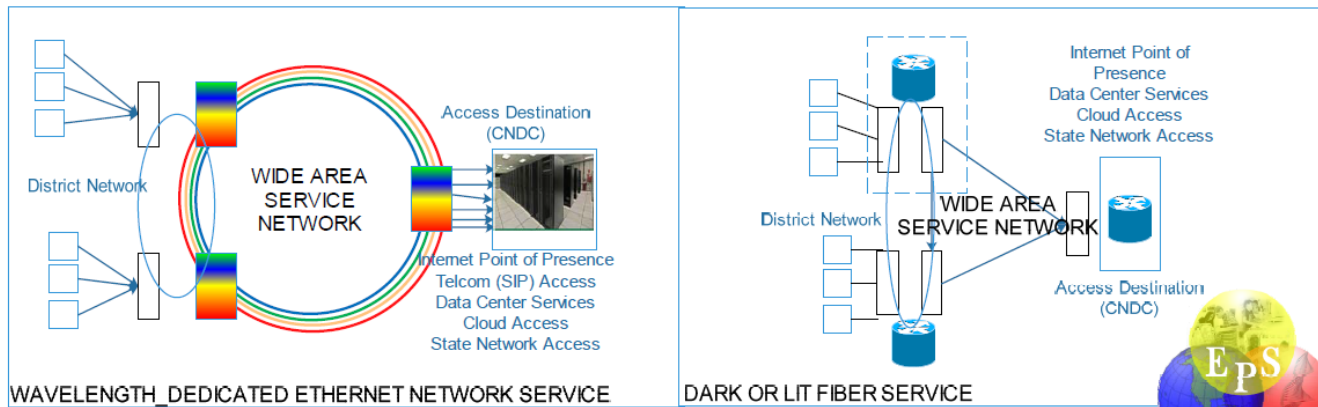


Intellectual Property and Design from Education Partners Solution, Inc.

Service _ Wide Area Network Design to Carrier Neutral Data Center (CNDC)

Design Difference between Service WAN and Intra District WAN/MAN:
Contracted Facility for Telecommunications/Internet Co/Lo Services
Contracted Facility for Data Center Co/Lo Services
Distance from Campuses or District NOC
Transport Technology Needed to Scale and Support Distances and Reliability - DWDM, Optical Wavelength Service, Managed Service. (For small districts, Ethernet still a viable solution.)

SERVICE PROVIDER NETWORK MODELS TO MEET CAPACITY AND RELIABILITY OF ISD REQUIREMENTS



Appendix 5: Terms

General Industry Definitions * * The definitions are general industry definitions, not formal FCC or USAC definitions.

- Special Construction on lit fiber service
 - Service provider owned
 - Upfront capital to reduce monthly recurring costs
- Special construction for dark fiber
 - Newly eligible (beyond property Line)
 - Long term lease (IRU) or build
 - Applicant must light and maintain fiber or hire a third party to do so
- **Indefeasible Right of Use (IRU)** – In telecommunications, Indefeasible Right of Use (IRU) is the effective long-term lease (usually a capital lease) of a portion of the capacity of an existing or to-be-constructed cable. IRUs are specified in terms of a certain number of strands of fiber. IRU is granted by the company or consortium of companies that built the (usually optical fiber) cable. Some IRU legal agreements forbid resale of the strands. A typical IRU ownership period is granted for 20 years.
- **Lit Transport Bandwidth or Transport Bandwidth** – Transport bandwidth is a dedicated amount of capacity for transporting Internet Protocol data, voice and or video traffic between two designated points. This capacity is usually measured in Mbps or Gbps. Transport circuits do not included access to the commercial Internet.
- **Internet access bandwidth** – This is also typically termed Internet Service Provider bandwidth. This is a dedicated amount of capacity to access the commercial Internet. This bandwidth is purchased from one of several Internet points of presence (PoPs) across the country. Typically a customer buys transport bandwidth to reach a PoP and then access bandwidth from the PoP to access the Commercial Internet.
- **Dark Fiber** – Unused optical fiber that has been constructed/installed but is not currently being used in fiber- optic communications. Because fiber-optic cable transmits information in the form of light pulses, a "dark" cable refers to one through which light pulses are not being transmitted.
- **Lit Fiber** – Optical fiber that is regularly being used to transmit data.
- **Aerial Fiber** – Fiber construction where the fiber is placed on existing or newly built poles. Fiber typically shares space with electrical transmission lines on these poles.
- **Attachment Fee** – An annual fee charged by a utility pole owner as “rental” for the placement of fiber on their utility pole.
- **Buried Fiber** – Fiber construction where the fiber, typically placed in a plastic conduit, is buried underground. Industry standard is to bury fiber and conduit at a depth of 3’ or more.

CPPS consideration for special construction for lit fiber service:

- Projected bandwidth demand outstrips the capacity of the existing infrastructure.
- Local market will yield lit service bids that cost effectively scale to meet the need.
- Capital costs to upgrade infrastructure are significant and special construction capital will reduce monthly recurring costs.

CPPS consideration for self-provisioning of dark fiber:

- Projected bandwidth demand outstrips the capacity of the existing infrastructure.
- Total cost of ownership analysis of lit service vs. dark fiber, including costs reflecting the complexity of ownership, are very favorable.
 - Assumptions on bandwidth growth and costs are reasonable and defensible.
- There are no other options, or no other cost-effective options available.

RFP- 07-16 PROPOSAL EVALUATION RUBRIC

Dark Fiber, Lit Fiber or Self-Provisioned Broadband Networks for Wide Area Network Connectivity

Proposing Company _____

Possible Points	Weight	Category	Benchmarks	Evaluation	Points
		Administrative Requirements	Overall presentation, appropriate signatures, documentation and licensures, etc.		
		Comments:			
		Specification Compliance	Technical components meet or exceed goods requirements, etc		
		Comments:			
		Work Plan	Option presented – viability of plan, ease of implementation, etc		
		Comments:			
		Cost Summary	Over-all cost. Value-added components, etc		
		Comments:			
		Bonds/Securities	Security deposit included		
		Comments:			
		Previous Experience	Like-sized districts, comparative complexity, etc.		
		Comments:			
		References	Minimum number presented. Recommendation, etc		
		Comments:			
		Personnel	Experience, knowledge, customer service, availability, etc		
		Comments:			
		Other	General Comments, Concerns, etc.		