



phone 585-697-5100

fax 585-442-8845

300 Meridian Centre
Rochester, NY 14618

March 24, 2010

Mr. Richard Bailey
Deputy Chief Information Officer
Connecticut Department of Information Technology
101 East River Drive
East Hartford, CT 06108

Dear Richard,

Please consider this letter as a statement of our commitment and support in acting as a highly qualified and committed vendor for the provision and management of dark fiber connectivity to connect public safety facilities and other selected anchor institutions throughout the State of Connecticut provided that funding is granted to the state by the National Telecommunications and Information Administration for mid-mile deployment under the American Recovery & Reinvestment Act of 2009.

Fiber Technologies Networks, L.L.C., "Fibertech", is ready and able to complete the proposed project to connect to approximately 667 sites throughout the state within the timeframes allowed for by the Stimulus Program. As a long-time provider of infrastructure services to the State of Connecticut and the predominant independent builder and operator of open access metropolitan fiber networks throughout the state and beyond, we believe that Fibertech is uniquely qualified to successfully execute a project of this scope. We hope that we have demonstrated that through our deployment of the existing CEN network and the initial public safety sites currently being implemented.

We appreciate your confidence in Fibertech and stand ready to begin the implementation of this network upon the successful funding notification of your submission.

We look forward to continuing to work with the State of Connecticut on this important project and supporting your vision for a statewide public safety, education and community network that will serve to benefit the state and many of its residents well into the future.

Sincerely,

A handwritten signature in blue ink that reads "Michael C. Hurley". The signature is stylized and fluid.

Michael C. Hurley
Vice President – Sales & Marketing

Lease Agreement

THIS LEASE AGREEMENT ("Lease"), entered into this 27th day of August, 2001, hereinafter referred to as the "Agreement" or "Lease", by and between the **State Of Connecticut**, acting by its **Department of Information Technology/Contracts & Purchasing Division**, hereinafter referred to as the "Lessee", located at 101 East River Drive, East Hartford, Connecticut 06108-3274, and Fiber Technologies Networks, LLC, hereinafter referred to as the "Lessor", having its principal place of business at , 140 Allens Creek Road, Rochester, NY 14618.

Lessor desires to lease to Lessee, and Lessee desires to lease from Lessor, certain tangible personal property, as initially described in the State of Connecticut Department of Information Technology Request for Proposals # 001-A-23-7049, Lessor's proposal responding to the Request, and resulting Product Schedules attached to this agreement..

Lessee depends on the expertise of Lessor to supply tangible personal property ("Product") to meet the requirements of Lessee as they are issued from time to time and attached to this Agreement in accordance with Section 3, "LEASE OF PRODUCTS."

NOW, THEREFORE, in consideration of the mutual covenants and promises hereinafter set forth, the parties hereto agree as follows:

1. LEASE

Lessor hereby leases to Lessee, and Lessee hereby leases from Lessor, the Products as described in the attached Product Schedule(s).

2. TERM

This Agreement shall become effective upon its approval as to form by the Office of the Attorney General of the State of Connecticut and shall continue until terminated by either party upon one hundred eighty (180) day prior written notification to the other party, except that such termination may not be effected so long as this Agreement applies to any Attachment (described in Section 3. LEASE OF PRODUCTS). If notification of termination is received from Lessor, Lessee agrees to no longer issue Letter Order(s) for any additional Products or associated services under the terms and conditions of this Agreement. Lessor agrees to fulfill all Letter Order(s) accepted prior to cancellation, if Lessee so requests.

3. LEASE OF PRODUCTS

Subject to the terms and conditions of this Agreement, Lessor shall lease to Lessee any Product and to furnish to said Lessee any associated services then available that are listed in Letter Orders and accepted by Lessor. Such Letter Orders shall contain, as a minimum, the following information:

- 1) Lessee Installation Site and Contact Person;
- 2) Desired Delivery Date;
- 3) Identity of this Agreement by Reference Number and Product Schedule;
- 4) Product Number, Description and Quantity;
- 5) Lease Term, Applicable Rate and Quantity Extensions;
- 6) Installation and Other One-Time Charge Rate(s) (If Applicable); and
- 7) Desired Maintenance and/or Support and Rate (If Applicable).

Lessor reserves the right to reject any Letter Orders. Lessor may offer to supplement the Product Schedule at any time to make additional Products, services and related terms available to the Lessee, providing the effective date of each supplement is stated thereon, and the Lessee accepts such supplement. Any supplement must be transmitted to the Lessee with a cover letter documenting formal approval of the supplement by a Lessor representative then legally empowered to so act.

Lessee may cancel Attachments at any time prior to delivery of Products or when delivered Product performance fails to meet the requirements of an issued document stating such requirements and proposed by the Lessor as meeting those requirements.

4. SHIPPING

Lessor shall be responsible for all shipping and installation of the Products at Lessee's designated sites.

5. PAYMENT AND DEPOSIT

A. The monthly payment for the Products shall be paid in accordance with the Connecticut General Statutes after the receipt of an invoice from Lessor as stated on the Product Schedule, beginning *as set forth in the Product Schedule*. Any installment payment not made within forty-five (45) days of the next due date shall be considered overdue and Lessor may levy a late payment charge in accordance with State Statutes on any overdue amount. Lease charges for any partial month shall be prorated.

B. Lessee shall not pay a deposit prior to taking possession of the Products nor at any time during the term of this lease.

6. USE

Lessee shall use the Products in a careful and proper manner and shall comply with and conform to all national, state, municipal, police and other laws, ordinances and regulations in any way relating to the possession, or use of the Products. Lessee acknowledges and agrees that the Products are provided for use exclusively by Lessee and any eligible buyer authorized by Lessee under applicable statutes and regulations to use such contracts for the provision of services by Lessee and any eligible buyer authorized by Lessee under applicable statutes and regulations to use such contracts. Neither Lessee nor any eligible buyer authorized by Lessee under applicable statutes and regulations to use such contracts will permit or provide access to or use of the Products as Dark Fiber, Lit Fiber or Lambda service or services to any unaffiliated party whether by sublease, license, sublicense, sale, resale, or any other form of transfer, disposition or agreement without the express written consent of Lessor.

7. WARRANTY

Lessor warrants that Lessor has the right to lease the Products as provided in this lease.

8. REPAIRS

Lessor, at its own cost and expense, shall keep the Products in good repair, condition and working order and shall furnish any and all parts, mechanisms and devices required to keep the Products in good mechanical working order. Such obligation and right to maintain and repair the Products shall belong exclusively to Lessor. Lessor shall provide reasonable monitoring of the performance of the Products. Upon notification of possible damage to the Products, Lessor shall dispatch technicians to site to locate

damage within 2 hours.

Lessee will not, by itself or through any agent or contractor, make any repair, replacement, alteration or modification to the Products or any other equipment or facilities provided by Lessor in relation to the Products. Lessee will not install any equipment or facilities, or use the Products in any manner, which damages the Products or damages or interferes with any other fiber-optic facilities or other equipment of Lessor or Lessor's other customers.

If all or any part of the Products require restoration, replacement or repair by reason of an act or omission of Lessee, its employees, agents or contractors, such repair, replacement and/or restoration will be made by Lessor at Lessee's sole cost and expense.

Lessor may make such changes and alterations to the Products as Lessor determines are necessary or advisable in its sole discretion provided that such changes or alterations do not (1) alter the number of fibers included in the Products, (2) alter the location of the demarcation points at which Lessee's facilities are connected to the Products, or (3) impair the use of the Products by Lessee.

9. LOSS AND DAMAGE

Lessor hereby assumes and shall bear the entire risk of loss and damage to the Products from any and every cause whatsoever except that Lessee assumes and shall bear the risk of loss and damage due to the negligence or willful misconduct of Lessee or its employees, agents, or contractors. No loss or damage to the Products or any part thereof shall impair any obligation under this Lease, which shall continue in full force and effect through the term of the Lease.

B. In the event of loss or damage of any kind whatever to the Products, Lessor shall, at Lessee's option:

- (i) Place the same in good repair, condition and working order; or
- (ii) Replace the same with like Products in good repair, condition and working order; or
- (iii) Pay to Lessee the replacement cost of the Products.

10. SURRENDER

Upon the expiration or earlier termination of this Lease, Lessee shall return the Products to Lessor in good repair, condition and working order, ordinary wear and tear resulting from proper use thereof alone excepted, by delivering the Products at Lessor's cost and expense to such place as Lessor shall specify.

11. INSURANCE

Lessor shall procure and continuously maintain and pay for: Combined public liability and property damage insurance with limits as approved by Lessee, naming Lessee as additionally named insured and a loss payee. The insurance shall be in such form and with such company or companies as shall be reasonably acceptable to Lessee and shall provide primary coverage for the protection of Lessee and Lessor without regard to any other coverage carried by Lessee or Lessor protecting against similar risks. Such company or companies shall provide Lessee with a certificate of insurance which shall provide at least thirty (30) days advance written notice to Lessee of any cancellation, change or modification Lessor hereby appoints Lessee as Lessor's attorney in fact to secure Lessee's rights and interests as a named insured under such insurance coverages, with power and authority to do all things, including, but not limited to, making claims, receiving payments and endorsing documents, checks or drafts necessary or advisable to secure payments due under any policy of insurance required under this Agreement. Nothing herein shall be construed to obligate Lessee to act as Lessor's attorney in fact for any other purpose under this Agreement.

12. TAXES

Lessee shall keep the Products free and clear of all levies, liens and encumbrances.

Lessor shall report, pay and discharge when due all license and registration fees, assessments, sales, use and property taxes, gross receipts, taxes arising out of receipts from use or operation of the Products, and other taxes, fees and governmental charges similar or dissimilar to the foregoing, together with any penalties or interest thereon, imposed by any state, federal or local government or any agency, or department thereof, upon the Products or the purchase, use, operation or leasing of the Products or otherwise in any manner with respect thereto and whether or not the same shall be assessed against or in the name of Lessor or Lessee.

13. INDEMNITY

Lessor agrees to indemnify, hold harmless and defend the Lessee from and against any patent, copyright, license or proprietary rights infringement claim or proceeding pertaining to Lessee use of any Product, except where a Lessee modifies or adapts said Product without Lessor consent. Lessor agrees to satisfy any final award arising from any said claim or proceeding. Lessee or a Lessee agrees to give Lessor prompt written notice of any impending said claim or proceeding, and agrees to Lessor's right to conduct any defense thereof.

14. DEFAULT

If Lessee fails to pay any rent or other amount herein provided within forty-five (45) days after the same is due and payable, or if Lessee fails to observe, keep or perform any other provision of this Lease required to be observed, kept or performed by Lessee, Lessor shall have the right to pursue its remedies at law or in equity as provided in the Connecticut General Statutes.

15. BANKRUPTCY

Should Lessor become insolvent or commit any act of bankruptcy or make a general assignment for the benefit of creditors or if Lessor or its successors or assignees discontinue support of the Products for any reason Lessor or its successors or assignees shall immediately transfer ownership, in fee, free of all encumbrances, to any and all Products so impacted by such action on or against the Lessor. Should Lessee elect not to terminate the agreement due to bankruptcy or in the event that Lessor ceases operations for any reason, Lessee's rights hereunder shall remain in full force and effect and any Trustee in Bankruptcy, assignee, creditor or third party of any kind or nature which shall legally succeed to the rights of Lessor hereunder shall be subject to all rights of Lessee hereunder. Upon cessation of operations for any reason, Lessee may make any repair, replacement, alteration or modification to the Products or any other equipment or facilities provided by Lessor in relation to the Products, using due care not to damage or interfere with any other fiber-optic facilities or other equipment of Lessor or Lessor's other customers. Should no such party legally succeed to the rights of Lessor hereunder within one year from the date of Breach by Lessor, and then title to the Fibers shall pass to Lessee.

16. OWNERSHIP

The Products are, and shall at all times be and remain, the sole and exclusive property of Lessor; and the Lessee shall have no right, title or interest therein or thereto except as expressly set forth in this Lease.

17. ADDITIONAL DOCUMENTS

If Lessor shall so request, Lessee shall execute and deliver to Lessor such documents as Lessor shall deem necessary or desirable for purposes of recording or filing to protect the interest of Lessor in the Products from claims by third Parties including, but not limited to a UCC financing statement.

18. ENTIRE AGREEMENT

This instrument (which consists of this Lease Agreement and any attachments and documents referenced in those attachments) constitutes the entire agreement between the parties on the subject matter hereof and it shall not be amended, altered or changed except by a further writing signed by the parties hereto.

19. NOTICES.

Service of all notices under this Agreement shall be sufficient if given personally or mailed certified, return receipt requested, postage prepaid, at the address hereinafter set forth, or to such address as such party may provide in writing from time to time.

If to Lessor:

Vice President, Sales and Marketing
Fibertech Networks, LLC
140 Allens Creek Road
Rochester, NY 14618
Telephone (716) 697-5100

If to Lessee:

Director, Enterprise Network Services
Department of Information Technology
101 East River Drive
East Hartford, Connecticut 06108
Telephone (860)622-2200

20. ASSIGNMENT

Lessee shall not assign this Lease or its interest in the Products without the prior written consent of Lessor.

21. GOVERNING LAW AND WAIVER OF OBJECTIONS TO JURISDICTION

This Lease shall be construed and enforced according to laws of the State of Connecticut without giving effects to its conflicts of laws provisions. Lessor agrees to submit to the jurisdiction of the State of Connecticut.

22. HEADINGS

Headings used in this Lease are provided for convenience only and shall not be used to construe meaning or intent.

23. NONDISCRIMINATION AND AFFIRMATIVE ACTION PROVISIONS

This section is inserted in this contract in connection with Subsection (a) of Section 4a-60 of the General Statutes of Connecticut, as revised.

a. For the purposes of this section, "minority business enterprise" means any small contractor or supplier of materials fifty-one per cent or more of the capital stock, if any, or assets of which is owned by person or persons: (1) Who are active in the daily affairs of the enterprise, (2) who have the power to direct the management and policies of the enterprise and (3) who are members of a minority, as such term is defined in Subsection (a) of Conn. Gen. Stat. Section 32-9n; and "good faith" means that degree of diligence which a reasonable person would exercise in the performance of legal duties and obligations. "Good faith efforts" shall include, but not be limited to, those reasonable initial efforts necessary to comply with statutory or regulatory requirements and additional or substituted efforts when it is determined that such initial efforts will not be sufficient to comply with such requirements.

For the purposes of this section, "commission" means the commission on human rights and opportunities.

For the purposes of this section, "public works contract" means any agreement between any individual, firm or corporation and the state or any political subdivision of the state other than a municipality for construction, rehabilitation, conversion, extension, demolition or repair of a public building, highway or other changes or improvements in real property, or which is financed in whole or in part by the state, including, but not limited to, matching expenditures, grants, loans, insurance or guarantees.

b. (1) The contractor agrees and warrants that in the performance of the contract such contractor will not discriminate or permit discrimination against any person or group of persons on the grounds of race, color, religious creed, age, marital status, national origin, ancestry, sex, mental retardation or physical disability, including, but not limited to, blindness, unless it is shown by such contractor that such disability prevents performance of the work involved, in any manner prohibited by the laws of the United States or of the state of Connecticut. The contractor further agrees to take affirmative action to insure that applicants with job-related qualifications are employed and that employees are treated when employed without regard to their race, color, religious creed, age, marital status, national origin, ancestry, sex, mental retardation, or physical disability, including, but not limited to, blindness, unless it is shown by such contractor that such disability prevents performance of the work involved; (2) the contractor agrees, in all solicitations or advertisements for employees placed by or on behalf of the contractor, to state that it is an "affirmative action-equal opportunity employer" in accordance with regulations adopted by the commission; (3) the contractor agrees to provide each labor union or representative of workers with which such contractor has a collective bargaining agreement or other contract or understanding and each vendor with which such contractor has a contract or understanding, a notice to be provided by the commission advising the labor union or workers' representative of the contractor's commitments under this section, and to post copies of the notice in conspicuous places available to employees and applicants for employment; (4) the contractor agrees to comply with each provision of this section and Conn. Gen. Stat. Sections 46a-68e and 46a-68f and with each regulation or relevant order issued by said commission pursuant to Conn. Gen. Stat. Sections 46a-56, 46a-68e and 46a-68f; (5) the contractor agrees to provide the commission on human rights and opportunities with such information requested by the commission, and permit access to pertinent books, records and accounts, concerning the employment practices and procedures of the contractor as relate to the provisions of this section and Conn. Gen. Stat. Section 46a-56. f the contract is a public works contract, the contractor agrees and warrants that he will make good faith efforts to employ minority business enterprises as subcontractors and suppliers of materials on such public works project.

c. Determination of the contractor's good faith efforts shall include but shall not be limited to the following factors: The contractor's employment and subcontracting policies, patterns and practices; affirmative advertising, recruitment and training; technical assistance activities and such other reasonable activities or efforts as the commission may prescribe that are designed to ensure the participation of minority business enterprises in public works projects.

d. The contractor shall develop and maintain adequate documentation, in a manner prescribed by the commission, of its good faith efforts.

e. The contractor shall include the provisions of Subsection b of this section in every subcontract or purchase order entered into in order to fulfill any obligation of a contract with the state and such provisions shall be binding on a subcontractor, vendor or manufacturer unless exempted by regulations or orders of the commission. The contractor shall take such action with respect to any such subcontract or purchase order as the commission may direct as a means of enforcing such provisions including sanctions for noncompliance in accordance with Conn. Gen. Stat. Section 46a-56; provided, if such contractor becomes involved in, or is threatened with, litigation with a subcontractor or vendor as a result of such direction by the commission, the contractor may request the state of Connecticut to enter into any such litigation or negotiation prior thereto to protect the interests of the state and the state may so enter.

f. The contractor agrees to comply with the regulations referred to in this section as they exist on the date of this contract and as they may be adopted or amended from time to time during the term of this contract and any amendments thereto.

24. NONDISCRIMINATION PROVISIONS REGARDING SEXUAL ORIENTATION

This section is inserted in this contract in connection with Subsection (a) Section 4a-60a of the General Statutes of Connecticut, as revised.

a. (1) The contractor agrees and warrants that in the performance of the contract such contractor will not discriminate or permit discrimination against any person or group of persons on the grounds of sexual orientation, in any manner prohibited by the laws of the United States or of the state of Connecticut, and that employees are treated when employed without regard to their sexual orientation; (2) the contractor agrees to provide each labor union or representative of workers with which such contractor has a collective bargaining agreement or other contract or understanding and each vendor with which such contractor has a contract or understanding, a notice to be provided by the commission on human rights and opportunities advising the labor union or workers' representative of the contractor's commitments under this section, and to post copies of the notice in conspicuous places available to employees and applicants for employment; (3) the contractor agrees to comply with each provision of this section and with each regulation or relevant order issued by said commission pursuant to section 46a-56 of the general statutes; (4) the contractor agrees to provide the commission on human rights and opportunities with such information requested by the commission, and permit access to pertinent books, records and accounts, concerning the employment practices and procedures of the contractor which relate to the provisions of this section and section 46a-56 of the general statutes.

b. The contractor shall include the provisions of Subsection a of this section in every subcontract or purchase order entered into in order to fulfill any obligation of a contract with the state and such provisions shall be binding on a subcontractor, vendor or manufacturer unless exempted by regulations or orders of the commission. The contractor shall take such action with respect to any such subcontract or purchase order as the commission may direct as a means of enforcing such provisions including sanctions

for noncompliance in accordance with section 46a-56 of the general statutes; provided, if such contractor becomes involved in, or is threatened with, litigation with a subcontractor or vendor as a result of such direction by the commission, the contractor may request the state of Connecticut to enter into any such litigation or negotiation prior thereto to protect the interests of the state and the state may so enter.

c. The contractor agrees to comply with the regulations referred to in this section as they exist on the date of this contract and as they may be adopted or amended from time to time during the term of this contract and any amendments thereto.

25. EXECUTIVE ORDER NO. THREE

This contract is subject to the provisions of Executive Order No. Three of Governor Thomas J. Meskill promulgated June 16, 1971 and, as such, this contract may be cancelled, terminated or suspended by the state labor commissioner for violation of or noncompliance with said Executive Order No. Three, or any state or federal law concerning nondiscrimination, notwithstanding that the labor commissioner is not a party to this contract. The parties to this contract, as part of the consideration hereof, agree that said Executive Order No. Three is incorporated herein by reference and made a part hereof. The parties agree to abide by said Executive Order and agree that the state labor commissioner shall have continuing jurisdiction in respect to contract performance in regard to nondiscrimination, until the contract is completed or terminated prior to completion. The contractor agrees, as part consideration hereof, that this contract is subject to the Guidelines and Rules issued by the state labor commissioner to implement Executive Order No. Three, and that he will not discriminate in his employment practices or policies, will file all reports as required, and will fully cooperate with the State of Connecticut and the state labor commissioner.

26. EXECUTIVE ORDER NO. SIXTEEN

This Agreement is subject to Executive Order No. Sixteen of Governor John G. Rowland promulgated August 4, 1999 and, as such, this Agreement may be canceled, terminated or suspended by the State for violation of or noncompliance with said Executive Order No. 16. The parties to this Agreement, as part of the consideration hereof, agree that said Executive Order No. 16 is incorporated herein

27. EXECUTIVE ORDER NO. SEVENTEEN

This contract is subject to the provisions of Executive Order No. Seventeen of Governor Thomas J. Meskill promulgated February 15, 1973, and, as such, this contract may be cancelled, terminated or suspended by the contracting agency or the State Labor Commissioner for violation of or noncompliance with said Executive Order No. Seventeen, notwithstanding that the Labor Commissioner may not be a party to this contract. The parties to this contract, as part of the consideration hereof, agree that Executive Order No. Seventeen is incorporated herein by reference and made a part hereof. The parties agree to abide by said Executive Order and agree that the contracting agency and the State Labor Commissioner shall have joint and several continuing jurisdiction in respect to contract performance in regard to listing all employment openings with the Connecticut State Employment Service.

28. REPORTS TO THE AUDITORS OF PUBLIC ACCOUNTS

This contract is subject to the provisions of §4-61dd Connecticut General Statutes. In accordance with this section any person having knowledge of any matter involving corruption, violation of state or federal laws or regulations, gross waste of funds, abuse of authority or danger to the public safety occurring in any large state contract, may transmit all facts and information in his possession concerning such matter

to the Auditors of Public Accounts. In accordance with subsection (e) if an officer, employee or appointing authority of a large state contractor takes or threatens to take any personnel action against any employee of the contractor in retaliation for such employee's disclosure of information to the Auditors of Public Accounts or the Attorney General under the provisions of this section, the contractor shall be liable for a civil penalty of not more than five thousand dollars for each offense, up to a maximum of twenty per cent of the value of the contract. Each violation shall be a separate and distinct offense and in the case of a continuing violation each calendar day's continuance of the violation shall be deemed to be a separate and distinct offense. The executive head of the state or quasi- public agency may request the Attorney General to bring a civil action in the Superior Court for the Judicial District of Hartford to seek imposition and recovery of such civil penalty. In accordance with subsection (f) each large state contractor shall post a notice of the provisions of this section relating to large state contractors in a conspicuous place which is readily available for viewing by the employees of the contractor.

SIGNATURE PAGE OF AGREEMENT

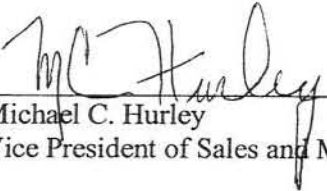
This Agreement is entered into by authority of Sections 4d-2, 4d-5 and 4d-8 of the General Statutes.

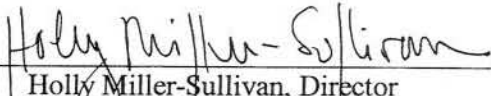
FIBER TECHNOLOGIES NETWORKS, LLC

STATE OF CONNECTICUT

By: FIBERTECH NETWORKS, LLC, its
sole member

APPROVED:

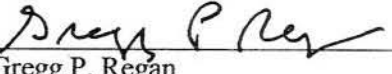
BY: 
Michael C. Hurley
Vice President of Sales and Marketing

BY: 
Holly Miller-Sullivan, Director
Contracts & Purchasing Division
Department of Information Technology

DATE: 9/4/01

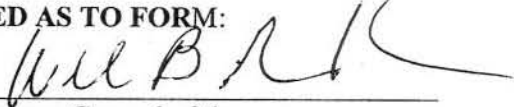
DATE: 9.5.01

SEAL

BY: 
Gregg P. Regan
Chief Information Officer
Department of Information Technology,
duly authorized

DATE: 9/5/01

APPROVED AS TO FORM:

BY: 
Assoc. Attorney General of the
State of Connecticut

DATE: 9/6/01

Reference No. B-00-014

CERTIFICATE OF AUTHORITY

I, Charles B. Stockdale, the undersigned, do hereby certify that I am the Vice President & Secretary of Fibertech Networks, LLC ("Fibertech"), a Delaware limited liability company, and that Fibertech is the sole member of Fiber Technologies Networks, L.L.C. ("FTN"), a New York limited liability company. As set forth in Paragraph 5 of the Amended and Restated Operating Agreement of FTN entered into as of March 29, 2001, all management of FTN is vested in Fibertech.

Article 6 of the Second Amended and Restated Operating Agreement of Fibertech dated March 29, 2001, provides that responsibility for management of day-to-day operations shall be delegated to officers of the company. Pursuant to that Article, as Vice President of Sales & Marketing, Michael C. Hurley holds the authority associated with that position, including the power to enter into agreements pursuant to which FTN leases fiber facilities to customers. Therefore, I certify that as Vice President of Sales & Marketing, Michael C. Hurley is empowered to execute the Lease Agreement with the Connecticut Department of Information Technology and any related contracts or amendments to contracts, and that Board approval of such contracts is not required.

Dated this 4th day of September, 2001.

(Seal)


Charles B. Stockdale
Vice President & Secretary

Product Schedule

Lease Agreement # B-00-014

Fiber Technologies Networks, LLC

PRODUCT SCHEDULE #1

DARK FIBER INSTALLATION, LEASING AND MAINTENANCE (Agreement B-00-014)

This product description allows the State or authorized users of the Master Agreement to procure the installation, operation and maintenance of Singlemode Fiber Optic cable between various locations in Connecticut. The service will be provided by allocating strands on the vendor's fiber optic cable backbone to the State (on-ring) and also by constructing custom cable extensions to requested facilities (laterals).

GENERAL COSTS FOR STANDARD PROPOSED SERVICES

1. **One Time cost for "On-Ring" fiber optic strands** will begin the provisioning of complete single-mode fiber paths between two points on Fibertech's dark fiber network ("Route Miles"). For each mile of each strand of fiber optic cable ("Fiber Mile") which the State leases, Fibertech will charge the State \$3,500. (If the State chooses to lease 2 strands in a given route mile segment of Fibertech's network, the cost would be \$7,000 for that mile.)
2. **Maintenance cost for "On-Ring" fiber optic cables** will be charged annually, beginning upon acceptance of the cable and continuing for up to 20 years. The maintenance cost will be \$300 per route mile per year. (By example, if the State leases a network segment of 2 miles with 12 strands in each mile segment, the maintenance cost would be $2 * \$300 = \600 per year.)
3. **One Time Cost for new "Lateral Builds" of fiber cable** are custom extensions of Fibertech's core network for the exclusive use of authorized State users under this Master Agreement. In all cases, the State will lease *no less than 12 fiber-strands* at \$3,500 per mile per strand. There are two categories of lateral builds:
 - a. Where the lateral cable is entirely aerial and has a total distance of less than 1000 feet, Fibertech will charge the State a $\frac{1}{4}$ mile minimum of the 12 strand lateral cable lease. At \$3,500 per strand per mile, this equates to \$10,500. ($12 \text{ strand min @ } \$3500 \text{ per strand per mile} \times .25 = \$10,500$).
 - b. In all cases where the lateral distance exceeds 1,000 feet, or where the cable is not aerial, Fibertech will charge the State a minimum of $\frac{1}{2}$ mile at 12 strands, which equates to \$21,000 per build. ($12 \text{ strand min @ } \$3500 \text{ per } .5 \text{ mile} = \$21,000$).
 - c. For any lateral build, the \$300 per year maintenance cost will apply to each fiber strand, with a minimum 1 mile per lateral, (\$300 per fiber per mile per year which equates to \$3600 per year for the standard 12 fibers on any lateral less than 1 mile.)
 - d. If Fibertech sells any portion of a lateral build to another customer outside of the context of this Master Agreement, the minimum strand requirements for that portion of the fiber segment will no longer be considered "lateral" and will be considered "on-ring" from that point forward, thus reducing the maintenance fee from \$300 per fiber mile to \$300 per route mile. (Adjustments should be made every 6 months. If Fibertech sells the segment to another party prior to completion or delivery of the segment to the State, this clause will apply to the one-time cost as well.)
 - e. In compliance with building codes, the lateral cable may be extended up to 50 feet inside any building after it exits an approved conduit. In instances where the

cable can be terminated within 50 feet of the approved entry, these lateral costs shall include the cabling inside the building to the termination point.

4. COSTS FOR BUILDING ENTRY CONDUITS

- a. At locations where there are existing available and useable inner ducts from the pole-line or underground conduit structure into the requested building, Fibertech will charge \$8/foot for pulling and installing the cable from the public right of way onto the property. If a new innerduct has to be placed in available conduit, Fibertech will charge the State \$10/foot. This cost will be in addition to the standard lateral fees bringing the cable from the Fibertech backbone to the public right of way in front of the building location.
- b. At locations where Fibertech's ring or lateral cable is aerial, Fibertech will charge the State a minimum of 300 feet at \$300/foot for a new aerial lateral cable to be provided into the building from the public right of way and \$25/foot for distances over 300 feet. This cost will be in addition to the standard lateral fees bringing the cable from the Fibertech backbone to the public right of way in front of the building location.
- c. At locations where a new underground-buried conduit into a building is required or if underground-buried conduit is required to complete a "lateral build", Fibertech will construct a single 4" conduit from the public right of way to the building for \$150 per foot. A second 4" conduit may be added for future purposes for an additional \$15 per foot. This cost will be in addition to the standard lateral fees bringing the cable from the Fibertech backbone to the public right of way in front of the building location.

5. COSTS FOR INSIDE BUILDING FIBER EXTENSIONS

In instances where additional inside construction is required beyond a standard 50 foot approved demarcation point, Fibertech will construct the necessary fiber on an individual case basis for its cost plus 30%. (Cost Plus 30%)

6. LATE DELIVERY PENALTIES:

If Fibertech is more than 180 days late of the original network delivery date, as stated in the individual purchase order, Fibertech will provide the State of CT a 2% credit off those such segments which are not completed for each 30 day interval Fibertech is late on a prorated basis. The credit will appear as a discount off the final acceptance billing.

7. MAINTENANCE FEE PAYMENTS

Fibertech will invoice the State for all Maintenance Fees upon fiber acceptance of any leased fibers by the State which Maintenance Fee. During the first year, the fiber rate will be prorated based upon the number of days remaining until the end of the State's fiscal year (6-30) following acceptance. After that point, the Fibertech shall invoice the State for the full annual Maintenance Fee for such leased fibers on the (1st) day of July of each successive year thereafter.

8. Delivery and Acceptance

For each route segment, Fibertech shall deliver to the State written notice of the delivery of the leased fiber segments, including written test results for each such route segment delivered to confirm that the route segment is within the specifications. The State shall

have 15 days after notification of delivery to complete its own testing and confirm the results provided by Fibertech ("Acceptance Period")

Unless the State sends a written notice to Fibertech of its objection to acceptance within the Acceptance period, which states that the cable has failed to conform to the specifications, the State shall be deemed to have accepted the cable segment and Fibertech may invoice the State. If the State sends a notice of non-acceptance, Fibertech will restore or repair the cable and supply new test results to the State, at which time the acceptance period will be reinitiated.

9. OTHER REQUIREMENTS AND CONSIDERATIONS

The terms, conditions, and specifications of RFP **001-A-23-7049** shall also apply to all work completed under the master agreement.

March 25, 2010

Richard R. Bailey
Deputy Chief Information Officer
Department of Information Technology
101 East River Drive
East Hartford, CT 06108

Dr. Mr. Bailey,

I heard that the Department of Information Technology is applying for a grant that would bring fiber connection to libraries currently receiving the Internet through DOIT/CEN. This would be a boon for the town of Killingworth. Computer usage in our library increases every year: online reference sources have replaced print materials, many patrons use the Net for employment searches, and tutors and homeschoolers make almost daily use of online learning programs. The attendance for our free computer classes has increased as well.

We are now having the library's computer network completely re-cabled and improvements made to the server; adding increased bandwidth through a fiber connection would optimize our system and the service we provide to our patrons.

We have been very happy with DOIT/CEN's service and technical support (when needed), and receiving our Internet connection for free has helped to offset other costs within the library. Thank you very much for your years of support to Connecticut libraries.

Sincerely,

Tammy Eustis, Head Librarian
Killingworth Library
301 Route 81, P.O. Box 725
Killingworth, CT 06419



Groton Public Library

www.grotonpl.org

March 24, 2010

Richard R. Bailey
Deputy Chief Information Officer
State of Connecticut
Department of Information Technology
101 East River Drive
East Harford, CT 06108

Dear Mr. Bailey,

The Groton Public Library supports the Department of Information Technology's application for a Broadband Technology Opportunities Program (BTOP) grant. The Library has participated in the Connecticut Education Network project since its inception. Our participation has permitted us to expand internet availability to residents of southeastern Connecticut – from 20 computers not too many years ago to the current 55 public access computers. Upgrading to fiber will allow us to meet the growing demand for internet access.

In February 2009, 5,337 people used our internet computers; in February 2010, 7,068 people were counted. This trend has been observed over the past year as the economy has compelled people to look for ways to cut their home budgets. The growing number of users underscores the need for sufficient bandwidth.

The Library's internet access is open to all – from children working on school reports using iCONN to teens using web 2.0 tools. Adults, in growing numbers, are looking for job and career information and training. The Library's Public Computer Learning Center offers opportunities for learning basic computer skills, one-on-one assistance and training on specific web applications. Having sufficient bandwidth will ensure that library users are able to access internet based information resources.

The residents of Groton and the surrounding communities will greatly benefit from an upgraded connection through CEN.

Sincerely,
Betty Anne Reiter
Director of Library Services



Groton Public Library

www.grotonpl.org





TOWN OF ENFIELD

Henry Dutcher, Director
Mary Palomba, Assistant Director

March 25, 2010

Mr. Richard R. Bailey
Deputy Chief Information Officer
State of Connecticut
Department of Information Technology
101 East River Drive
East Harford, CT 06108

Dear Mr. Bailey:

Please lend my strong support for the Department of Information Technology's application for a Broadband Technology Opportunities Program grant. As a Public Library Director and former member of the Commission on Educational Technology, I am keenly aware of the demands the residents of the state have placed on the Connecticut Educational Network. Despite all of the commitment, effort and success of the CEN we regularly experience sluggish response times as the continuing increase in demand out paces the networks capacities.

It is only through the continued vigilance of CEN as they address the network infrastructure bandwidth expansion that the residents of Connecticut will have their usage requirements met. The increased dependence of these residents on iCONN.org is well documented. The Web is now a major resource used by citizens as they pursue an education, engage in training and then look for employment. Opportunities diminish if the technology does not continue to grow to meet these needs.

The ability of the states' residents to continue to be competitive with the rest of the nation is directly related to their access to the network enhancements available through the BTOP grant. I sincerely hope we continue to support the needs of our state residents.

Sincerely,

Henry Dutcher

Department of Libraries
Central Library
104 Middle Rd.
Enfield, Connecticut 06082

Telephone (860) 763-7510
Fax (860) 763-7514
www.enfieldpubliclibrary.org

*The Burnham Library
62 Main Street South
P.O. Box 430
Bridgewater, CT 06752*

March 24, 2010

Richard R. Bailey
Deputy Chief Information Officer
State of Connecticut
Department of Information Technology
101 East River Drive
East Hartford, CT 06108

Dear Mr. Bailey:

I would like to take this opportunity to write in support of the Department of Information Technology's application for the Broadband Technology Opportunities Program grant.

With the current and growing trend of technology, small rural libraries such as ours would benefit greatly with increased bandwidth provided to us through the Connecticut Education Network. As with many libraries we continue to experience increased demand for use of our computers and the Internet by our residents and patrons. For many this is the only access they have to search for career and employment opportunities. The use of other online resources provided to us through the State Library and funded by the State of Connecticut are invaluable and something we would be unable to offer our residents if not through these two sources.

I urge you to please consider this grant application and the positive implications it will have for public libraries and their ability to continue to serve our residents with this increased bandwidth and state of the art Internet access.

Yours truly,

Sandra R. Neary
Director, Burnham Library

Morris Public Library
4 North Street
Morris, CT 06763
Tel: 860 567-7440 Fax: 860 567-7432
Email: lkfaison@biblio.org



March 25, 2010

Richard R. Bailey
Deputy Chief Information Officer
State of Connecticut
Department of Information Technology
101 East River Drive
East Hartford, CT 06108

Dear Mr. Bailey:

As director of Morris Public Library, I am writing in support of the Department of Information Technology's application for a Broadband Technology Opportunities Program grant. Our library serves a community of 2400 residents, a number of whom use our public computers as their only access to the Internet and other online resources. We also partner with the local elementary school to introduce students to information sources like the iCONN databases and, as a result, have students who conduct research at the library. Often user time is limited, and slow connections due to insufficient bandwidth can be frustrating. Having the opportunity for increased bandwidth to offer quick and reliable access to online resources would be a tremendous benefit to our community and others like ours. Thus, I hope that the BTOP application will be acted on favorably.

Sincerely,

Lorraine Kerr Faison

DIANE S. WALLACE

DIANE S WALLACE PROFESSIONAL EXPERIENCE

STATE OF CONNECTICUT – HARTFORD, CT

2005 - CURRENT

A \$14 billion government enterprise serving the residents and businesses in the State of Connecticut, with 76 agencies providing services in the government sector for public safety, health & social services, transportation, labor, homeland security, education, etc.

CHIEF INFORMATION OFFICER

DEPARTMENT OF INFORMATION TECHNOLOGY

FEB 2005 - CURRENT

- Completed the State of Connecticut's first technology strategic plan, and established a 3 year plan to close gaps in security, SOA architecture & standards, application support and organizational deficiencies. Created an E-Government strategy to provide online services for Connecticut citizens, business and non-profit organizations. Matured the current model from merely providing information online to processing business transactions, making it easier to do business with the state. Delivered online vehicle registration functions for the Dept of Motor Vehicles in June 2007, and online payment capabilities enabling online licensing functionality.
- Cost effective management resulted in a State IT budget that increased only 1.86% since 2005 (while the average State budget increase was 8%), while continuing to implement a state-of-the-art IT security & network infrastructure, eGovernment transaction functionality and built a strong IT employee workforce for the State.
 - Obtained over \$14M in telecommunications savings through renegotiated contracts, and implementing telephone plan savings across state agencies.
 - Reduced consultant costs by 30%, saving \$11.8M in consultant costs through improved project management and reporting controls
 - Promoted significant cost savings through improved contracts for hardware and software purchases and maintenance agreements. 95% of all bids resulted in lower final costs than were initially submitted. The current architecture program is forecast to save Connecticut between \$15 – 23M, dependant on the pace of legacy conversions.
- Completed the Connecticut Education Network, the first 100% fiber-optic network, connecting every town and city in the state of Connecticut to the Internet, to promote and leverage education training and issues across all constituents (K-12 and college, public and private). CEN connections now exist in each of the state's 169 cities and towns, 215 K-12 districts, 50 college and university campuses, and 178 libraries.
- Appointed Chairperson for the Geospatial Information Systems Council, representing all state agencies and municipalities. Built a geospatial solution to be shared by all these entities, with the first deliverable implemented 3Q07, emergency support for hurricane and wind damage events.

CNA FINANCIAL CORPORATION – Chicago, IL.

2002- 2003

VICE PRESIDENT, INFORMATION TECHNOLOGY

CLAIM, WORLDWIDE OPERATIONS, SPECIALTY & GLOBAL

JAN - OCT 2003

CLAIM & WORLDWIDE OPERATIONS

AUG - DEC 2002

CLAIM

FEB – AUG 2002

AETNA INC. – Hartford, CT.

1973 – 2000

CHIEF INFORMATION OFFICER, AETNA/USHEALTHCARE (A/USHC)

1998 – 2000

VICE PRESIDENT, AETNA INFORMATION TECHNOLOGY - CORPORATE

1995 – 1997

EDUCATION

SALEM STATE COLLEGE, Salem, Massachusetts

B.S. Education (magna cum laude) 1973

DIANE S. WALLACE
Richard R. Bailey, Sr.
Marlborough, CT 06447

Veteran of 36 years as a state employee, seeking progressively greater responsibility and accomplishing more demanding tasks.

Recent Accomplishments

- **Recognized in May of 2009 by CIO Magazine for outstanding leadership receiving their One's to Watch Award**; Co-lead statewide Pandemic Continuity of Operations planning process and conducted educational and plan development training sessions for all state agencies; **Lead statewide laptop full disk encryption effort which resulted in the encryption of 7,000 laptop hard drives in a 7 week period covering 64 agencies**; Responsible for state HIPAA compliance program impacting 10 agencies; **Developed and implemented the state's IT Security Program and Security Risk Analysis Methodology**; Established and implemented a statewide e-licensing solution; **Established a statewide network intrusion prevention solution; Implemented an enterprise internet filtering solution for the state**; Redesigned and implemented new enterprise firewall infrastructure

Professional Experience

Deputy Chief Information Officer – State of Connecticut, EAST HARTFORD, CT ▪ OCTOBER, 2007 – PRESENT

- Organizationally responsible for the daily operation, budget, strategic planning, personnel allocation and organization alignment for Computer Operations, IT Security, Networking and Architecture programs.
- Serve as a member of the states Stimulus Transparency Workgroup establishing a Web site and supporting processes to meet federal transparency expectations.
- Serve as a member of the states Stimulus Expediting Workgroup setting up a processes to support state regulatory and permitting processes for Connecticut stimulus projects.
- Serve as a member of the States Broadband Workgroup responsible for establishing the Connecticut's Broadband Strategic Plan and related operational policies and procedures.

IT MANAGER 2 AND 3 – STATE OF CONNECTICUT, EAST HARTFORD, CT ▪ DECEMBER, 2003 – OCTOBER, 2007

- Within the IT Security and Architecture Divisions of DOIT: plans, organizes and manages all operations and activities; directly responsible for meeting all information technology needs of the IT Security and Architecture Divisions; responsible for establishing priorities of information technology initiatives within each division; develop IT Security service offerings and project future utilizations; ensure RFI and RFP processes provide for strategically aligned, cost effective, high quality solutions for the state; Construct and Present Project, Budget and Financial Presentations for IT Security, DOIT Staff, Agency Personnel, OPM Budget, Legislative Budget Sub Committee and Bond Fund Sub Committee; IT Security Operations Includes: Enterprise Firewall Infrastructure; Statewide Internet Filtering Platform; Intrusion Prevention and Network Monitoring; Investigation and Forensics Support; Conduct Semi-Annual Disaster Recovery Hot Site Platform and Network Recovery Testing; DOIT Business Continuity Planning; DOIT Pandemic Continuity of Operations Planning; Establishment of and maintain Internal Emergency Operations Center; Establish External Emergency Operations Center; Support Planning Efforts Associated with The Establishment of an Alternate Data Center; DNS Platform; CSS Platforms; Edited content, managed four editors, and provided usability feedback for Web site development projects that showcased the company's business-to-business wireless services.
-

Johnathan Vittner Experience

Chief Technology Officer, State of Connecticut, 2008 to Present

Responsible for directing and managing the State of Connecticut Architecture and Standards Division and overseeing program efforts of the Connecticut Education Network (CEN).

- Develop and maintain an Enterprise Architecture Program for the State of Connecticut. Annual technology expenditures within the State of Connecticut exceed \$100M annually. Develop operational staffing models to support network operations 24x7x365
- Establish and maintain standards across nine technology domains
- Plan for technology end-of-life scenarios and associated impacts including fiscal planning and technology refresh
- Monitor, review and approve/disapprove IT procurements to assure compliance with adopted technology standards

Perform on-going budget planning (including eRate filing) and rate setting for services provided by the Connecticut Education Network to a wide variety of consumers including Higher Education, private K-12 and non-profit entities

Program Manager, Connecticut Education Network (CEN), 2000-2008

As Co-Program manager for six years, responsible for assuring the successful build out of the Connecticut Education Network to a highly diverse educational community including K-20 and libraries across the State of Connecticut. Project was completed on-time and within budget (~\$40M). Responsible for an on-going operational budget of \$3.2M which is subsidized by \$5.2M in E-Rate funds.

- Participation in network architecture JAD sessions for OSI Layers 1-3 of the CEN
- Develop operational staffing models to support network operations 24x7x365
- Vendor management for dark fiber, Frame Relay, ATM, RLAN DSL and Layer-2 WAN services
- Creation of outreach program for K-12/Library constituents including mentoring and training of CEN's available services and network security best practices
- Conduct on-going communications with budget and oversight entities including the Connecticut State Legislature (Appropriations and Bonding Committees) and the Commission for Educational Technology
- Creation and deployment of State Metropolitan Area Network for Executive branch agencies within the metro-Hartford area
- Manage oversight of the network documentation and monitoring control systems

Systems Developer, State of Connecticut, Department of Public Health, 1987-1996

Various systems developer positions responsible for both new application development. Evaluation of RFP for telecommunications services to consolidate 5 health and human service agencies. Implemented first local area network (LAN) within the agency.

- Developed new multi-user applications for DPH programs including School Based Health Centers (SBHC), Women Infants and Children (WIC), Vital Statistics and Health Care Licensing.
- Liaison for DPH to telecommunications committee charged with providing new telecommunications infrastructure and services within Capitol Avenue Complex including structured cabling systems (CAT-5/MM-Fiber), Cabletron switches and Fujitsu PBX.
- Installed, operated and managed DPH Layer-2 switching services
- Procurement and management of network monitoring services provided by ePresence
- Consolidation of multiple technologies into single LAN environment including Wang VS-300, HP-UX, MPE/iX and Banyan Vines.
-

B.S., Management Information Systems 1988

Central Connecticut State University

G.P.A. 3.5

ROBIN BROWN

QUALIFICATIONS SUMMARY

- Certified Network Analyst—CCSE, CISSP, CCNA; SnortCP,
- GSIP – Secure Internet Presence

EXPERIENCE

Senior Network Engineer

University of Connecticut Storrs, CT Nov 2003–Present

Research, design, test and implement network security procedures for the Connecticut Education Network. Responsible for the monitoring and performance of a 10 gigabit backbone and multi-gigabit Internet and Internet2 ISP connections. Proficient in the design and configuration of routing protocols such as BGP and OSPF. Assist in the design, implementation and expansion of the MPLS VPN network infrastructure. Design, configure and install hardware, software and services to support the daily operation of the Connecticut Education Network including DNS, mail, web servers, routers and firewalls. Create and implement security policies, operating and documentation procedures, network monitoring and auditing tools including Nagios, Cacti, Netflow. Planning and implementing network infrastructure expansion, equipment refreshes and Internet service provider bandwidth requirements.

ISP Administrator

Total Communications East Hartford, CT Nov 2001–Nov 2003

Architect secure, scalable and fault tolerant infrastructure for Internet services provider. Design, configure and install hardware, software and services to support the daily operation of a business-to-business service including DNS, mail, web servers, routers and firewalls. Create and implement security policies, operating and documentation procedures, network monitoring and auditing tools.

Senior Security Engineer

Integralis US East Hartford, CT April 1999–Oct 2001

Project management for multi-homed Internet solutions. Network architect responsible for the planning and implementation of firewall, internet services, WAN and router equipment and configurations to facilitate high availability configurations. Pre and post sales technical support; Assessment of new technology; VPN solutions. Experienced in Checkpoint, Raptor and Gauntlet firewall technology on multiple platforms including Solaris, Linux, IPSO(Nokia) and Windows; Cisco and Bay Networks routers and load balancing with Alteon switches.

Stephen E. Verbil

Work Summary

Mr. Verbil has over 20 years of technical and managerial experience in the design, development, implementation, integration, operation, user training, testing, and maintenance of critical communications and data systems. His background includes wired and wireless local area networks (LAN), wide-area and municipal-area networks (WAN and MAN), low band, high band, UHF and 800 MHz land mobile radio (LMR) systems, as well as the construction, management and operation of 9-1-1 Public Safety Answering Points (PSAPs) and Emergency Operations Centers (EOC), with an emphasis on the automation/computerization of these functions.

Professional Experience

Connecticut DPS/OSET

2008 - Present

The Office of Statewide emergency Telecommunications (OSET), within Connecticut's Department of Public Safety, is the state agency which provides the Enhanced 9-1-1 system used by all municipalities in the state, develops and maintains the statewide emergency services telecommunication plan to provide coordinated emergency service telecommunications to all state residents; provides technical telecommunications assistance to state and local police, fire and emergency medical service agencies; and manages the funding for all of these activities. Working within the title of Emergency Telecommunications Manager, Mr. Verbil is currently serving as the Interim Director of OSET.

Verbil Communications, Inc.

2000-2008

A consulting firm providing analysis, design and implementation services for the public safety sector in the areas of Emergency Communications Centers, 9-1-1 implementation, Computer-Aided Dispatch and Records Management Systems, wired and wireless telecommunications. In this role, he provided program management and design consultant services for simulcast hybrid analog/P25 CAI trunking Systems, as well as conventional analog and digital radio systems – including propagation analysis; communications site permitting/construction/co-location; new communications centers, including dispatch consoles and 9-1-1 equipment; new fire station alerting systems; hybrid high speed data system configurations in local area network and municipal area network flavors; and management of the equipment installation, cutover and acceptance phases.

DIANE S. WALLACE
Gerald F. Werner
Consultant / Project Manager

Gerald is an independent contractual Networking Consultant and Project Manager with over 15 years of experience designing, implementing and managing multiple diverse voice and data networking infrastructure projects. Specializing in State and Local government projects related to Voice-over-IP transitions, Next Generation and Enhanced 911 Services as well as core resilient Fiber-Optic Networks, Gerald has successfully implemented many projects ranging in size from small local efforts to large, state-wide networking deployments on time and within budget. Additionally, Gerald has held several technical and management positions in the Information Technology field in both the public and private sectors over his 25+ year career including Technical Field Engineer, Implementation Lead, Network Services Manager and Director of Technology Services.

Gerald's list of core competencies include:

- Over 15 years experience designing, implementing and managing both large and small scale data/telecom network infrastructures ranging from 10 to 1200 end points
- Extensive experience in data network design, LAN/WAN engineering, capacity planning, VoIP and legacy telecommunication services
- Broad industry experience in various market segments and entity sizes including SMB, Enterprise, Local/State Government, Emergency Operations and Healthcare
- Experience in NG and E911 systems design, project planning and implementation management
- Extensive experience in developing project plans, requirements and gap analysis, development of RFP/RFI and Statements of Work, presentation reporting and end-to-end deliverables

Gerald believes that the primary key to a successful project is a solid technical design coupled with highly detailed implementation planning and includes significant (and on-going) clear communications with all team members and project stakeholders. Understanding the "why" is as equally important as the "do".

Gerald officially resides in Michigan and has a formal educational background in Electronic Engineering and Information Systems.

Germain Blais

State of Connecticut Network Subject Matter Expert

Experience

State of Connecticut/Department of Information Technology, East Hartford, CT

2000 – Present, Subject Matter Expert

- Developed and implemented the State Of Connecticut Enterprise Network consisting of 76 State Agencies with over 1000 Cisco Routers and Switches and over 50,000 IP nodes. Thirty years of networking experience with the State.
- Leadership role in the deployment of new technologies and products.
- Developed and implemented the State's Network Disaster Recovery hot-site plan;
- Developed and implemented the State's CORE-CT Financial Business Continuity Network Plan at UCONN Storrs using Dark Fiber with CWDM optics.
- Designed POP2 to be implemented at UCONN Storrs; eliminates remapping of circuits to hot-site, adds bandwidth, reduces costs. Allows for active/active usage.
- Redesigned and upgraded CORE Infrastructure with 10 Gigabits links as part of the State's IT Roadmap project.
- Participated on the design of the proposed E-911 PSDN project to be implemented in 2010.
- Designed and implemented the multi-homed ISP service for State Government; serves all 3 branches.
- Develops Network Architectural LAN/WAN/MAN network designs for highly available network.
- Designed and implemented web load balancing using Cisco's CSS and ACE server hardware.
- Designed Firewall architecture and implemented Internet Firewalls Policies for Internet, CJIS, and Core-CT networks.
- Designed scalable architecture to protect the e-mail server using Anti-virus/Spam control appliances.
- Implemented the use of IPSec VPN branch to branch technologies to reduce cost and add security.
- Works with FBI and IRS on bi-annual network security audits.
- Administrator for the State of Connecticut IP Addressing; American Registration of Internet Numbers.
- Serves on DOIT's Technical Review Board as Network SME.
- Managed network team and consultants; Interface with users and vendors.

State of Connecticut/Department of Information Technology, East Hartford, CT

1979 – 2000, Technical Systems Analyst 1, 2, 3

- Designed, installed, configured IBM Mainframe SNA, APPN/EE, and TCPIP Systems
- Designed, installed, configured and maintained complex routed LAN and WAN networks.

Training:

Extensive Cisco Networking Training, Checkpoint Firewall-1, Nokia Security Appliance, X-Force Proventia Intrusion Prevention, SNA, TCPIP, BGP, EIGRP, OSPF, CSS and ACE Load Balancers, Global Site Selector, DWDM Network Designs and Engineering Solutions, VoIP, Visio, Project, Power Point, Unix, ASP-NET, Web Page Creation, SQL, Networking Seminars and Conferences, in-house and Web based training sessions

Certification:

CCNA certified

Education:

Central Connecticut State University, BS in Management Information System, 1994
Manchester Community College, Associates in Data Processing, 1983

DIANE S. WALLACE

JACQUE C. CASSELLA

Middletown, CT

EXPERIENCE:

December 2005 - Present State of Connecticut, Department of Information Technology
Information Technology Subject Matter Expert

- Design, implement and troubleshoot highly-complex networking and security infrastructures in the State Data Center in East Hartford supporting applications and systems including but not limited to Single Sign On, Intranet (LAN) Switch Block, Internet Filtering Solution, Enterprise load balancing, Graphical Information Systems and Messaging (POP and Exchange) Environment.
- Design, implement and troubleshoot highly-complex technical solutions to support State of CT Disaster Recovery and Business continuity plans utilizing emerging high speed Optical solutions including CWDM, EWDM and DWDM to network disaster sites.
- Develop architectural design of a second Point of Presence for the State's Wide Area Network to provide redundancy in WAN circuits. Prepare design of redundant WAN Edge, Encryption, fiber path and optical signaling connecting the POP2 to State Data Center and DR sites. Prepare optical design and infrastructure footprint for networking equipment (and associated costs) to be located at the State's Second Data Center.

January 2004 - December 2005 Max Restaurant Group, Inc., Hartford, CT

Director of Information Technology

- Designed, developed and implemented an integrated information systems infrastructure to support the operation and record keeping for an independent restaurant chain with 10 physical locations. Designed and implemented company's Wide Area Network and local area networks utilizing serial and broadband circuits and Sonicwall firewalls.

June 1999 - January 2004 Nxegen, Inc. (Autorino Associates), Middletown, CT

Network Engineer / Network Services Manager

Shared Technologies Cellular (Autorino Associates), Hartford CT

Network Services Manager / Data Center Manager

Pelton's Drug Stores Inc., Middletown, CT

Director of Management Information Systems

United States Department of Labor, Bureau of Labor Statistics, Washington, D.C.

System Analyst / Economist

EDUCATION:

April 1994 - Connecticut Computer Service, Plantsville, CT & East Hartford, CT

Present Classes consisted of network design, implementation, and support in Cisco, Checkpoint, Nokia, Microsoft, Linux/UNIX, and Novell platforms.

July 1991 - United States Department of Labor Academy, Washington, D.C.

March 1994 Certificates received for 400 hours of classroom computer training in Mainframe environments.

June 1991 The University of Connecticut, Storrs, CT

Bachelor of Arts, June 1991, G.P.A. 3.53

March 23 2010

CONNECTICUT BROADBAND STIMULUS ORGANIZATION

