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MAY 7 - 2007
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May 7, 2007

Commission's Secretary
Office of the Secretary
Federal Communications Commission
236 Massachusetts Avenue
NE, Suite 110
Washington, DC 20002

Re: Southwestern Pennsylvania Regional Health Care Network

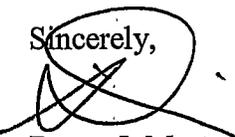
Dear Commission Secretary:

Thank you for the opportunity to present a comprehensive solution for a Regional Broadband Health Care Network in Southwestern Pennsylvania. This network shall connect ninety-nine Health Care facilities with more than 1000 physicians.

This proposal is based on leveraging the infrastructure that was established through a State of Pennsylvania E-Fund Grant and funding from the Universal Service Administrative Company for a Regional Broadband Educational Network. The Regional Broadband Network currently consists of approximately 95 miles of fiber optics connecting 11 School Districts, 10 libraries and an I2 connection at the Pittsburgh Super Computer Center. The Network shall be expanded to connect 99 non-for-profit Health Care facilities throughout the area.

Once you have a chance to review our proposal, I will look forward to hearing your comments. Our consortium prides itself on instant service so please feel free to call me. Thank you very much for this opportunity to present this proposal.

Sincerely,


Bruno J. Mastroianni
Director, IT Infrastructure
Heritage Valley Health System
1000 Dutch Ridge Road
Beaver, PA 15009
Phone (724) 773-2135
bmastroianni@hvhs.org

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List ABCDE

Table of Contents

1 – Lead Organization

2 – Goals and Objectives of Network

3 – Network Costs

4 – For-Profit Network Participants

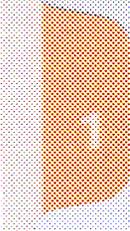
5 – Source of Financial Support

6 – List of Facilities

7 – Previous Experience and Project Management Plan

8 – Coordination of Telemedicine Program

9 – Self-sustaining Network



Lead Organization

Lead Organizations

This WAN will provide affordable, reliable, fast, and secure communication among ninety-nine Health Care facilities with more than 1000 physicians. The entities include:

Five main hospitals:

- Heritage Valley Beaver (358 Beds)
- Heritage Valley Sewickley (186 Beds)
- Frick Hospital (102 Beds)
- Latrobe Hospital (196 Beds)
- Westmoreland Hospital (301 Beds)

Nine affiliated physician groups:

- Tri-State Medical Group
- Sewickley Valley Medical Group
- Tri-State Obstetrics and Gynecology
- Tri-State Gynecology
- Tri-State Pediatric Associates
- Excela Health Diversified Services, Inc
- Excela Health Physician Practices
- Excela Health Home Care and Hospice
- Excela Health SurgiCenter at Ligonier

Five foundations:

- The Medical Center
- Sewickley Hospital foundations
- Frick Hospital foundation
- Westmoreland Hospital foundation
- Latrobe Area Hospital Charitable foundation

The organization that shall be legally and financially responsible for the conduct of activities supported by the fund shall be:

**Heritage Valley Health System
1000 Dutch Ridge Road
Beaver, Pa 15009
724-728-7000**

Goals and Objectives of Network

Goals and Objectives of Network

The mission of the Southwestern Pennsylvania Regional Health Care Broadband Network is to provide enhanced public and non-profit health care providers' access to advanced telecommunications and information services through effective leadership, supportive services, and innovative products. In direct alignment with the Rural Health Care Pilot Program objectives of "the construction of regional broadband networks", "bringing the benefits of innovative telehealth and, in particular, telemedicine services" and "supporting the cost of connecting regional networks to Internet2" this network is seeking funding through the Pilot Program initiative to create a high speed, **Wide Area Network** with access to **Internet 2** to serve the Health Care services of Western Pennsylvania (Allegheny, Beaver, Butler, Lawrence, Westmoreland, Fayette and Indiana Counties), Eastern Ohio and the pan handle of West Virginia.

This WAN will provide affordable, reliable, fast, and secure communication among **ninety-nine Health Care facilities** with more than 1000 physicians. The entities include:

Five main hospitals:

- Heritage Valley Beaver (358 Beds)**
- Heritage Valley Sewickley (186 Beds)**
- Frick Hospital (102 Beds)**
- Latrobe Hospital (196 Beds)**
- Westmoreland Hospital (301 Beds)**

Nine affiliated physician groups:

- Tri-State Medical Group**
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- Tri-State Obstetrics and Gynecology**
- Tri-State Gynecology**
- Tri-State Pediatric Associates**
- Excelsa Health Diversified Services, Inc**
- Excelsa Health Physician Practices**
- Excelsa Health Home Care and Hospice**
- Excelsa Health SurgiCenter at Ligonier**

Five foundations

- The Medical Center**
- Sewickley Hospital foundations**
- Frick Hospital foundation**
- Westmoreland Hospital foundation**
- Latrobe Area Hospital Charitable foundation**

The Southwestern Pennsylvania Regional Health Care Broadband Network has recently established a partnership with the BC Wan Consortium. This strategic partnership will benefit the Regional Health Care network by leveraging the infrastructure that was established through a State of Pennsylvania E-Fund Grant and funding from the Universal Service Administrative Company for a Regional Broadband Educational Network. The Regional Broadband

Educational Network currently consists of approximately 95 miles of fiber optics connecting 11 School Districts, 10 libraries and an I2 connection at the Pittsburgh Super Computer Center.

The existing network shall be expanded adding approximately 180 miles of additional fiber and utilizing separate fiber strands within the existing infrastructure for a dedicated regional broadband Health Care network.

This partnership is in direct alignment with the strategic considerations of the Pilot Program. The various hospitals, physician groups and foundation collaboration will provide a mechanism by which Health Care providers and patients will be connected promoting the sharing of information, ideas and best practices.

Objectives of the network are to:

- Create a broadband network infrastructure that would support the establishment of telemedicine services to all locations in the region.
- Provide high-quality universal medical services by allowing access to medical specialists to patients without leaving their communities.
- Provide next generation access between research institutions and Health Care institutions by providing access to Internet 2.
- Create a, cost-efficient, effective, creative, replicable, and scalable model for intensive care doctors and nurses to monitor critically ill patients at multiple locations around the clock.
- Develop and distribute a wide range of equitable, excellent, innovative telemedicine content that is available 24/7 to serve a diverse group of patients' needs.
- Use formative and summative evaluations to ensure success.

The Regional Broadband WAN will provide the bandwidth necessary to support these objectives by creating a vehicle for member Health Care institutions to employ the use of current and emerging technologies. It will support access to web based administrative software, synchronous and asynchronous telemedicine delivery systems, and I2 services. The WAN will also support video, voice, and content distribution, as well as remote data storage and retrieval.

The network will link the Health Care facilities and the Pittsburgh Super Computer Center to each other. It will facilitate and support extension of this connectivity to other Regional Health Care Networks, government organizations, universities and service agencies.

Network Costs

Network Costs

5 Year Contract

The total cost for a 60 month contract to establish and maintain the service shall be nine million seven hundred twenty three thousand fifty-five dollars and thirteen cents (\$9,723,055.13). Utilizing 85% funding from the Rural Health Care Pilot Program, the funding request shall be seven million two hundred twenty-five thousand six hundred seventy-nine dollars and seven cents (\$7,225,679.07). The funding provided by the Member Health Care facilities shall be one million two hundred seventy-five thousand one hundred nineteen dollars and eighty-four cents (\$1,275,119.84).

The above cost breakdown is as follows:

Year	Upfront from RHC (85%)	Annual Member Fees
1	\$7,225,679.07	\$255,023.96
2	\$0	\$255,023.96
3	\$0	\$255,023.96
4	\$0	\$255,023.96
5	\$0	\$255,023.96

For-Profit Network Participants

For-profit network participants shall be encouraged to participate in the regional broadband network, however, they shall pay their fair share of the network costs. The for-profit participants shall pay for any construction necessary to expand the network and establish services to their facilities. In addition, the for-profit participants shall be required to pay a monthly service fee equal to the current urban rate for transmission services for a functionally similar service in a city with a population of 50,000. Currently the Altoona Regional Health System is paying \$1,400 per month for gigabit connectivity between Hospital's within the urban area. The for-profit network participants shall be required to match this current urban rate.

Source of Financial Support

Location	Street Address	City	State	Zip	Annual Cost per Facility
The Medical Center	1000 Dutch Ridge Road	Beaver	PA	15009	\$5,456.95
Rheumatology in Aliquippa	1 Hospital Drive, Suite 3	Aliquippa	PA	15001	\$5,456.95
Women's Health Center	200 Pleasant Drive	Aliquippa	PA	15001	\$5,456.95
Hopewell Office and Conference Center	2439 Brodhead Rd	Aliquippa	PA	15001	\$5,456.95
IMA of Aliquippa	2360 Hospital Dr	Aliquippa	PA	15001	\$5,456.95
Hopewell Business Care	5000 Industrial Blvd.	Aliquippa	PA	15001	\$5,456.95
Tri-State Medical Group Hopewell	3954 Brodhead Road	Aliquippa	PA	15001	\$5,456.95
Hopewell Medical Arts Building	4515 Brodhead Road	Aliquippa	PA	15001	\$5,456.95
Family Practice of Hopewell	99 Buss Road	Hopewell	PA	15001	\$5,456.95
IMA Ambridge	1155 Merchant Street	Ambridge	PA	15003	\$5,456.95
Ambridge Area Health Care	599 Maplewood Avenue	Ambridge	PA	15003	\$5,456.95
Baden Area Health Care	1509 West State Street	Baden	PA	15005	\$5,456.95
Baden Billing Office	272 Ohio River Boulevard	Baden	PA	15005	\$5,456.95
Tri-State Medical Group Orchard Lab Services	1200 Sharon Road	Beaver	PA	15009	\$5,456.95
ASP Surgery	1300 Fifth Street Ext.	Beaver	PA	15009	\$5,456.95
Tri-State Obstetrics and Gynecology Bridgewater	195 Boundary Lane	Beaver	PA	15009	\$5,456.95
Tri-State Pediatric Assoc Beaver	250 College Avenue	Beaver	PA	15009	\$5,456.95
VIMC Beaver	500 Sharon Road	Beaver	PA	15009	\$5,456.95
Sebastian Professional Building	605 Sharon Road	Beaver	PA	15009	\$5,456.95
Vanport Gyn	690 State Street	Beaver	PA	15009	\$5,456.95
5th Street Professional Building	701 Fifth Street	Beaver	PA	15009	\$5,456.95
Sewickley Valley Medical Group Cardiology of Beaver	500 Market Street, Suite 101	Beaver	PA	15009	\$5,456.95
Beaver Medical Commons	1030 Beamer Hollow Road	Beaver	PA	15009	\$5,456.95
AIM of Beaver	1211 Third Street	Beaver	PA	15009	\$5,456.95
ASP Dr. Beverly Carl	500 Market Street, Suite 202	Bridgewater	PA	15009	\$5,456.95
Tri-State Surgical	93 Bouncy Lane	Bridgewater	PA	15009	\$5,456.95
BIMA Beaver Falls	1307 Sixth Avenue	Beaver Falls	PA	15010	\$5,456.95
Chippewa Plaza	2400 Darlington Road	Beaver Falls	PA	15010	\$5,456.95
Chippewa Medical Arts Building	2620 Constitution Blvd	Beaver Falls	PA	15010	\$5,456.95
BIMÁ Chippewa	2674 Darlington Road	Beaver Falls	PA	15010	\$5,456.95
Beaver Falls Family Practice	918 3rd Avenue	Beaver Falls	PA	15010	\$5,456.95
Baytek Clinton PA	1254 Route 30	Clinton	PA	15026	\$5,456.95
Tri-State Medical Group Midland	21 Seventh Avenue	Midland	PA	15059	\$5,456.95
Tri-State Pediatric Assoc Center Twp.	1210 Brodhead Road	Monaca	PA	15061	\$5,456.95
Tri-State Medical Group Monaca	3950 Brodhead Rd Suite 200	Monaca	PA	15061	\$5,456.95
ASP Thoracic and Vascular	1520 Third Avenue	New Brighton	PA	15066	\$5,456.95

Tri-State Medical Group New Brighton	1307 Sixth Avenue	New Brighton	PA	15066	\$5,456.95
YMCA New Brighton	2236 Third Street	New Brighton	PA	15066	\$5,456.95
Tri-State Medical Group Darlington	207A Second Street	Darlington	PA	16115	\$5,456.95
Masonic Village Pharmacy	1000 Masonic Drive	Sewickley	PA	15143	\$5,456.95
Family Practice Assoc of Sewickley & Peds of Sewickley	525 Locust Place	Sewickley	PA	15143	\$5,456.95
Sewickley Valley Hospital	720 Blackburn Road	Sewickley	PA	15143	\$5,456.95
Sewickley Valley Medical Group Cardiology	100 Village Drive	Leetsdale	PA	15056	\$5,456.95
Tri-State Medical Group Cardiology of Wexford	1000 Stonewood Dr Suite 110	Wexford	PA	15090	\$5,456.95
North Hills Pediatrics	119 VIP Drive Suite G4	Wexford	PA	15090	\$5,456.95
Stanton Clinic Marshall	119 VIP DRIVE	Wexford	PA	15090	\$5,456.95
Franklin Park Family Practice	2400 Corporate Drive	Wexford	PA	15090	\$5,456.95
Business Care Wexford	10474 Perry Hwy	Wexford	PA	15090	\$5,456.95
Dr. Shinn Wexford Office	2591 Wexford Bayne Rd.	Wexford	PA	15090	\$5,456.95
5th Ave Medical Associates	1101 Fifth Avenue, Suite 202	Coraopolis	PA	15108	\$5,456.95
Dr. E. A. Ruberg	1136 L Thorn Run Road	Moon Township	PA	15108	\$5,456.95
Moon Family Practice Center	936 Thorn Run Road	Moon Township	PA	15108	\$5,456.95
Family Practice of Moon	993 Brodhead Road	Moon Twp	PA	15108	\$5,456.95
UPMC West	1600 Coraopolis-Heights Road	Moon Twp.	PA	15108	\$5,456.95
West Allegheny Health Care	300 Penn Lincoln Drive	Imperial	PA	15126	\$5,456.95
Stanton Clinic West Park	618 Russellwood Ave.	McKees Rocks	PA	15136	\$5,456.95
Stanton Clinic Bellevue	612 Lincoln Ave.	Pittsburgh	PA	15202	\$5,456.95
Stanton Clinic Crafton	300 Biltmar Dr Suite 240	Pittsburgh	PA	15205	\$5,456.95
Sewickley Valley Medical Group Robinson and Robinson	Route 60 & Park Manor Dr.	Pittsburgh	PA	15205	\$5,456.95
Calcutta Medical-Arts Center	48462 Bell School Road	East Liverpool	OH	43920	\$5,456.95
Zdunek Calcutta	15303 State Route 170	East Liverpool	OH	43920	\$5,456.95
Tri-State Medical Group Ellwood City	1673 State Route 65	Ellwood City	PA	16117	\$5,456.95
Tri-State Obstetrics and Gynecology/GYN Ellwood City	1677 State Route 65	Ellwood City	PA	16117	\$5,456.95
Ellwood Hospital Annex	304 Evans Drive	Ellwood City	PA	16117	\$5,456.95
Edgeworth Square	111 Hazel Lane	Sewickley	PA	15143	\$5,456.95
Open MRI of Robinson	1928 Park Manor Blvd	Pittsburgh	PA	15205	\$5,456.95
Heritage Valley Health System School of Nursing	420 Rouser Road Suite 101	Moon Township	PA	15108	\$5,456.95
Westmoreland Hospital	532 W. Pittsburgh St	Greensburg	PA	15601	\$5,456.95
Latrobe Hospital	1 Mellon Way (formerly 104 W 2nd Ave)	Latrobe	PA	15650	\$5,456.95
Frick Hospital	508 S Church St	Mt. Pleasant	PA	15666	\$5,456.95
Owens and Minor	134 Industrial Park Dr	Greensburg	PA	15601	\$5,456.95
Arnold Palmer Cancer Center	200 Village Dr	Greensburg	PA	15601	\$5,456.95
Latrobe Cardiology Associate, Inc	1005 Ligonier St	Latrobe	PA	15650	\$5,456.95

Quikdraw/Purchasing - Pellis Road	420 Pellis Rd	Greensburg	PA	15601	\$5,456.95
Quikdraw - Youngwood	505 N 4th Street	Youngwood	PA	15697	\$5,456.95
Quikdraw - Mt Pleasant	220 Bessemer Road	Mt. Pleasant	PA	15666	\$5,456.95
Quikdraw - Irwin	905 Spruce St	Irwin	PA	15601	\$5,456.95
Quikdraw - Herminie	401 Church St	Herminie	PA	15637	\$5,456.95
Quikdraw - Oppy Building	201 N Pittsburgh St	Connellsville	PA	15425	\$5,456.95
Quikdraw - Rugh Street	545 Rugh St	Greensburg	PA	15601	\$5,456.95
Quikdraw - West Newton	115 S Second St	West Newton	PA	15089	\$5,456.95
WPHC - Delmont	421 Route 22	Delmont	PA	15626	\$5,456.95
WPHC - Mountain View	808 Marguerite St	Greensburg	PA	15601	\$5,456.95
WPHC - Connellsville Dr. Tiberio	171 West Crawford Ave	Connellsville	PA	15425	\$5,456.95
Dr. Sanders Irwin Office	8981 Norwin Ave Suite 101	Irwin	PA	15601	\$5,456.95
Mutual Aid	561 West Otterman St	Greensburg	PA	15601	\$5,456.95
Dental Center-Orthopedics	510 Pellis Rd	Greensburg	PA	15601	\$5,456.95
Salisbury Family Practice	101 Ninth St	Salisbury	PA	15681	\$5,456.95
Norvelt Family Practice	Route 981	Norvelt	PA	15674	\$5,456.95
Blairsville Family Practice	56 Club Ln	Blairsville	PA	15717	\$5,456.95
Ligonier Diagnostic Testing	208 South Dice Alley	Ligonier	PA	15658	\$5,456.95
Ligonier Surgi Center	221 W Main St	Ligonier	PA	15658	\$5,456.95
Derry	118 W Fourth Ave	Derry	PA	15627	\$5,456.95
Ligonier Ambulatory	2 West Ave	Latrobe	PA	15650	\$5,456.95
Diagnostic Assoc of Latrobe	1100 Ligonier St	Latrobe	PA	15650	\$5,456.95
Latrobe Hospital Storeroom	501 Center Dr	Latrobe	PA	15650	\$5,456.95
Torrance State Hospital	Route 1014 (AKA Torrance Rd)	Torrance	PA	15779	\$5,456.95
Highlands Hospital	401 E Murphy Ave	Connellsville	PA	15425	\$5,456.95
Highlands Hospital Health Stop	109 Crossroads Rd	Scottsdale	PA	15683	\$5,456.95

*Please Note that if any site is a for-profit site they will be charged the current urban rate for a gigabit connection

List of Facilities

Location	Street Address	City	State	Zip	RUCA	Phone #
Blairsville Family Practice	56 Club Ln	Blairsville	PA	15717	7.2	724-459-5203
Ligonier Diagnostic Testing	208 South Dice Alley	Ligonier	PA	15658	7.1	724-238-7180
Ligonier Surgit Center	221 W Main St	Ligonier	PA	15658	7.1	724-238-9573
Calcium Medical Arts Center	48462 Bell School Road	East Liverpool	OH	43920	6.0	330.385.9492
ZeleneKalcium	15303 State Route 170	East Liverpool	OH	43920	6.0	330-385-2423
Tri-State Medical Group-Midland	21 Seventh Avenue	Midland	PA	15059	4.0	724-643-5697
Baymont PA	1254 Route 30	Clinton	PA	15026	2.0	724-573-5600
WPRC Delmont	421 Route 22	Delmont	PA	15626	2.0	724-468-6601
Salisbury Family Practice	101 Ninth St	Salisbury	PA	15681	2.0	724-639-3541
Tri-State Medical Center	1000 Dutch Ridge Road	Beaver	PA	15009	1.0	724-773-2135
Rheumatology in Aliquippa	1 Hospital Drive, Suite 3	Aliquippa	PA	15001	1.0	724-857-0991
Women's Health Center	200 Pleasant Drive	Aliquippa	PA	15001	1.0	724-378-7000
Hopewell Office and Conference Center	2139 Brodhead Rd	Aliquippa	PA	15001	1.0	724-773-2119
IMA of Aliquippa	2360 Hospital Dr	Aliquippa	PA	15001	1.0	724.378.0830
Hopewell Business Care	5000 Industrial Blvd.	Aliquippa	PA	15001	1.0	724-857-4004
Tri-State Medical Group Hopewell	3954 Brodhead Road	Aliquippa	PA	15001	1.0	724-378-8878
Hopewell Medical Arts Building	4515 Brodhead Road	Aliquippa	PA	15001	1.0	724-375-0830
Family Practice of Hopewell	99 Buss Road	Hopewell	PA	15001	1.0	724-857-0942
IMA Ambridge	1155 Merchant Street	Ambridge	PA	15003	1.0	724-266-1620
Ambridge Area Health Care	599 Maplewood Avenue	Ambridge	PA	15003	1.0	724-266-3239
Baden Area Health Care	1509 West State Street	Baden	PA	15005	1.0	724-869-6002
Baden Billing Office	2722 Ohio River Boulevard	Baden	PA	15005	1.0	724-728-4455
Tri-State Medical Group Orchard Lab Services	4200 Sharon Road	Beaver	PA	15009	1.0	724-774-5030
ASP Surgery	4300 Fifth Street Ext.	Beaver	PA	15009	1.0	724-775-5443
Tri-State Obstetrics and Gynecology Bridgewater	195 Boundary Lane	Beaver	PA	15009	1.0	724-775-6636
Tri-State Pediatric Assoc Beaver	250 College Avenue	Beaver	PA	15009	1.0	724-774-6877
VIMC Beaver	500 Sharon Road	Beaver	PA	15009	1.0	724-728-4171
Sebastian Professional Building	605 Sharon Road	Beaver	PA	15009	1.0	724-728-3302
Vapor Gyn	690 State Street	Beaver	PA	15009	1.0	724-774-4546
5th Street Professional Building	701 Fifth Street	Beaver	PA	15009	1.0	724-774-9460
Saukley Valley Medical Group Cardiology of Beaver	500 Market Street, Suite 101	Beaver	PA	15009	1.0	724-728-7830
Beaver Medical Commons	1030 Beaver Hollow Road	Beaver	PA	15009	1.0	724-775-5890
AIM of Beaver	1211 Third Street	Beaver	PA	15009	1.0	724.770.0990
ASP Dr Beverly Carl	500 Market Street, Suite 202	Bridgewater	PA	15009	1.0	724-728-8840
Tri-State Surgical	93 Boundry Lane	Bridgewater	PA	15009	1.0	724-728-8900
BIMA Beaver Falls	1307 Sixth Avenue	Beaver Falls	PA	15010	1.0	724-843-2611

Chippewa Plaza	2400 Darlington Road	Beaver Falls	PA	15010	1.0	724-843-2664
Chippewa Medical Arts Building	2620 Constitution Blvd	Beaver Falls	PA	15010	1.0	724-843-0737
BIMA Chippewa	2674 Darlington Road	Beaver Falls	PA	15010	1.0	724-846-0430
Beaver Falls Family Practice	918 3rd Avenue	Beaver Falls	PA	15010	1.0	724-843-6000
Tri-State Pediatric Assoc Center Twp.	1240 Broadhead Road	Monaca	PA	15061	1.0	724-775-8518
Tri-State Medical Group Monaca	3950 Broadhead Rd Suite 200	Monaca	PA	15061	1.0	724-775-2438
ASP Thoracic and Vascular	1520 Third Avenue	New Brighton	PA	15066	1.0	724-843-3802
Tri-State Medical Group New Brighton	1307 Sixth Avenue	New Brighton	PA	15066	1.0	724-847-2870
NMCA New Brighton	2236 Third Street	New Brighton	PA	15066	1.0	724 847-2791
Tri-State Medical Group Darlington	207A Second Street	Darlington	PA	16115	1.0	724-827-8137
Masonic Village Pharmacy	4000 Masonic Drive	Sewickley	PA	15143	1.0	412-741-1400
Family Practice Assoc of Sewickley & Peds of Sewickley	5251 Cyclist Place	Sewickley	PA	15143	1.0	412-741-7077
Sewickley Valley Hospital	720 Blackburn Road	Sewickley	PA	15143	1.0	724-728-7000
Sewickley Valley Medical Group Cardiology	1100 Village Drive	Leetsdale	PA	15056	1.0	724-728-7830
Tri-State Medical Group Cardiology of Wexford	1000 Stonewood Dr Suite 110	Wexford	PA	15090	1.0	724-940-2290
North Hills Pediatrics	149 VIP Drive Suite G4	Wexford	PA	15090	1.0	412.364.0990
Staubton Clinic Marshall	119 VIP DRIVE	Wexford	PA	15090	1.0	724-935-5177
Franklin Park Family Practice	2400 Corporate Drive	Wexford	PA	15090	1.0	724-935-9044
Business Care Wexford	10474 Perry Hwy	Wexford	PA	15090	1.0	724-934-1655
Dr. Shinn Wexford Office	2591 Wexford Bayne Rd.	Wexford	PA	15090	1.0	724-935-2620
5th Ave Medical Associates	1101 Fifth Avenue, Suite 202	Coraopolis	PA	15108	1.0	412-269-0899
Dr. E. A. Ruberg	1136 L Thom Run Road	Moon Township	PA	15108	1.0	412-262-7443
Moon Family Practice Center	935 Thorn Run Road	Moon Township	PA	15108	1.0	412-262-6464
Family Practice of Moon	993 Broadhead Road	Moon Twp	PA	15108	1.0	412-264-1991
PRMC West	1600 Coraopolis Heights Road	Moon Twp.	PA	15108	1.0	412-264-7721
West Allegheny Health Care	300 Penn Lincoln Drive	Impertal	PA	15126	1.0	724-695-2714
Staubton Clinic West Park	618 Russellwood Ave.	McKees Rocks	PA	15136	1.0	412-771-7610
Staubton Clinic Bellevue	612 Lincoln Ave.	Pittsburgh	PA	15202	1.0	412-734-5507
Staubton Clinic Crafton	300 Bijlmar Dr Suite 240	Pittsburgh	PA	15205	1.0	412-928-8687
Sewickley Valley Medical Group Robinson and Robinson	Route 60 & Park Manor Dr.	Pittsburgh	PA	15205	1.0	412-787-5769
Tri-State Medical Group Ellwood City	1673 State Route 65	Ellwood City	PA	16117	1.0	724-758-7585
Tri-State Obstetrics and Gynecology/GYN Ellwood City	1677 State Route 65	Ellwood City	PA	16117	1.0	724-752-0595
Ellwood Hospital Annex	304 Evans Drive	Ellwood City	PA	16117	1.0	724-752-5274
Edgeworth Square	111 Hazel Lane	Sewickley	PA	15143	1.0	412-749-7330
Open MRI of Robinson	1928 Park Manor Blvd	Pittsburgh	PA	15205	1.0	412-788-0901
Heritage Valley Health System School of Nursing	420 Rouser Rd Suite 101	Moon Twp	PA	15108	1.0	724-773-2095
Westmoreland Hospital	552 W. Pittsburgh St	Greensburg	PA	15601	1.0	724-832-4000

Latrobe Hospital	1 Mellon Way	Latrobe	PA	15650	1.0	724-537-1000
Frick Hospital	508 S Church St	Mt. Pleasant	PA	15666	1.0	724-547-1500
Owens and Minor	134 Industrial Park Dr	Greensburg	PA	15601	1.0	724-832-2520
Arnold Palmer Cancer Center	200 Village Dr	Greensburg	PA	15601	1.0	724-838-1900
Latrobe Cardiology Associate, Inc	1005 Ligonier St	Latrobe	PA	15650	1.0	724-532-1020
Quikdraw/Purchasing - Pellis Road	420 Pellis Rd	Greensburg	PA	15601	1.0	724-832-4320
Quikdraw - Youngwood	505 N 4th Street	Youngwood	PA	15697	1.0	724-925-1538
Quikdraw - Mt Pleasant	220 Bessemer Road	Mt. Pleasant	PA	15666	1.0	724-547-0300
Quikdraw - Irwin	905 Spruce St	Irwin	PA	15601	1.0	724-861-5751
Quikdraw - Hermintie	401 Church St	Hermintie	PA	15637	1.0	724-446-0781
Quikdraw - Oppy Building	204 N. Pittsburgh St	Connellsville	PA	15425	1.0	724-628-5770
Quikdraw - Rugh Street	545 Rugh St	Greensburg	PA	15601	1.0	724-836-2420
Quikdraw - West Newton	115 S Second St	West Newton	PA	15089	1.0	724-872-0930
WPHC - Mountain View	800 Wagoner St	Greensburg	PA	15601	1.0	724-834-2525
WPHC - Connellsville Dr. Tiberio	171 West Crawford Ave	Connellsville	PA	15425	1.0	724-628-5800
Dr. Sanders Irwin Office	8984 Norwin Ave Suite 101	Irwin	PA	15601	1.0	724-864-3030
Mutual Aid	561 West Otterman St	Greensburg	PA	15601	1.0	724-834-4349
Dental Center Orthopedics	510 Pellis Rd	Greensburg	PA	15601	1.0	724-832-1190
Norvelt Family Practice	Route 981	Norvelt	PA	15674	1.0	724-423-4051
Derry (Lab)	118 W Fourth Ave	Derry	PA	15627	1.0	724-694-0314
Ligonier Ambulatory	2 West Ave	Latrobe	PA	15650	1.0	724-238-9573
Diagnostic Assoc of Latrobe	1100 Ligonier St	Latrobe	PA	15650	1.0	724-539-3555
Latrobe Hospital Storeroom	501 Center Dr	Latrobe	PA	15650	1.0	724-537-1087
Torrance State Hospital	Route 1014 (AKA Torrance Rd)	Torrance	PA	15779	1.0	724-459-8000
Highlands Hospital	401 E Murphy Ave	Connellsville	PA	15425	1.0	724-628-1500
Highlands Hospital Health Stop	109 Crossroads Rd	Scottsdale	PA	15683	1.0	724-887-0123

Previous Experience and Project Management Plan

Project Leadership and Management Team

The Southwestern PA Regional Broadband Health Care Network project team is made up of individuals across all stakeholder groups. The members selected individuals from their administrative or central office teams to sit on the planning committee. These individuals were then responsible for communicating the individual site needs for plan development as well as spearheading initiative objectives and information gathering processes in their sites.

Please see below for a complete description of the project team leaders.

Bruno Mastroianni, Project Director (All Teams)

Bruno Mastroianni - Director, IT Infrastructure is responsible for daily technology operational support to Heritage Valley Health System. Mr. Mastroianni brings over twenty years of information technology management experience, including accomplishments such as comprehensive systems upgrades that included hardware, software, and network infrastructure with twelve years in Higher Education and 3 in Health Care. He currently manages the team responsible for daily support including over 270 servers and almost 2,000 desktops and 150 hand held units. Since his appointment in 2005, he has reduced call time to resolution from days/weeks to 48 hours, improved communication and managed multiple large scale IT projects.

Mr. Mastroianni will be responsible for project coordination and future planning of the initiative. As the primary contact for the project he meets regularly with the other team leads and communicates plan updates by participating in the regularly scheduled meetings of the Advisory Council and Business Managers meetings. In addition, he is responsible for conducting the Technology Coordinators meetings. Mr. Mastroianni will oversee the educational and technical elements of the initiative and will be responsible for all formative and summative evaluations.

Bill Sullivan, Network Infrastructure Team Lead

As the HVHS Network Engineer, Bill Sullivan effectively and efficiently manages the LAN, WAN, data communications, desktop, and host/server platforms of the corporate network infrastructure for Heritage Valley Health System. His position requires both technical skills, project management, coordinating team efforts, effectively communicate with and work with people from all corporate levels.

Mr. Sullivan will be responsible for communication; collection, analysis, and management of the infrastructure build to member locations. He oversees a team of project and construction coordinators, who work together to plan, engineer and construct the infrastructure elements of the initiative.

David DiFabio, Medical Specialists Access Team Lead

David DiFabio PMP/CISSP, recently joined Excelsa Health's information technology team as the Director of Information Technology, where he will oversee security-related issues; help desk and technical support, and infrastructure management. A seasoned professional, DiFabio brings to the table 20+ years of diversified and highly successful experience in problem-solving and

decision-making positions in support of the US Navy's Intelligence community. His portfolio of experience includes training and management within the civilian information technology field as well as the academic environment. He has demonstrated expertise in communication technology including large-scale communication and networking system design and installation, mainframe to microcomputer maintenance, secure and VoIP telephony and cryptologic equipment maintenance.

Mr. DiFabio will be responsible for communication, collection, analysis, and recommendation of the system needs for allowing remote access to medical specialists. He oversees a team of member technology staff who work together to plan and develop the remote medical access elements of the initiative.

Daniel Holtzman, Internet 2 Team Lead

Daniel Holtzman is the Systems Architecture Coordinator for the HVHS Information Systems department. He is responsible for working with the vendor to design and implement the network connectivity to integrate with the existing HVHS network. Mr. Holtzman has over 17 years in networking and systems integration, the past 9 years at HVHS.

Mr. Holtzman will be responsible for communication, collection, analysis and recommendation of the Internet 2 needs of the members. He oversees a team made up of two (2) technology staff who work together to plan and develop the I2 technical aspects of the initiative.

Debra Greenberg, Intensive Care Monitoring Team Lead

Debra Greenberg is the Director of Clinical Informatics and is responsible for implementing and supporting technologies for nursing and clinicians at Heritage Valley Health System. Mrs. Greenberg brings over 28 year of nursing experience and 14 years of clinical informatics experience including implementations, upgrades, and support for physicians, nurses, physician office staff and ancillary staff. She currently manages the clinical informatics team which is in the process of fully implementing online clinical documentation to all clinical areas at both hospitals within the system.

Mrs. Greenberg will be responsible for communication, collection, analysis and recommendation of the Intensive Care Monitoring needs of the members. She oversees a team made up of medical staff that work together to plan and develop the intensive care monitoring aspects of the initiative.

Bruno Mastroianni, Finance Team Lead

Bruno Mastroianni - Director, IT Infrastructure is responsible for daily technology operational support to Heritage Valley Health System. Mr. Mastroianni brings over twenty years of information technology management experience, including accomplishments such as comprehensive systems upgrades that included hardware, software, and network infrastructure with twelve years in Higher Education and 3 in Health Care. He currently manages the team responsible for daily support including over 270 servers and almost 2,000 desktops and 150 hand held units. Since his appointment in 2005, he has reduced call time to resolution from days/weeks to 48 hours, improved communication and managed multiple large scale IT projects.

Mr. Mastroianni will be responsible for communication, collection, analysis, and recommendation of budgetary needs of the members. He oversees a team of district finance Managers who work together to plan and develop the fiscal elements of the initiative.

Project Management Plan

Formative and summative evaluations of the project objectives are recognized by the team as an essential component to the successful implementation of the project. To this end, the following evaluation plan will be implemented.

To ensure the success of the project the project team will meet monthly. Each meeting will follow a similar agenda to the following:

Old Business:

- Administration Team Report
- Network Infrastructure Team Report
- Medical Specialists Access Team Report
- Internet 2 Team Report
- Critical Patient Monitoring Team Report
- Finance Team Report

New Business:

Miscellaneous:

Round Table:

The time spent on old business reports will contain updates on existing programs and should contain information on program status. In addition, team leaders should summarize formative evaluation information for the other project teams.

The project director, using input from the team leaders, will develop the New Business and Miscellaneous sections of the agenda. Topics will include formulating new plans for the use of the network and creating and revising evaluation protocols and instruments for existing and new initiatives.

Coordination of Telemedicine Program

Project goals will be evaluated and reported on an ongoing basis. Each goal will be evaluated based on multiple evidence points. (The measures of evaluation are not all-inclusive and are subject to change at the discretion of the project team.) The consortium goals and evaluation criteria are outlined in the table below.

Objectives	Measures of Evaluation
Create a broadband network infrastructure that would support the establishment of telemedicine services to all locations in the region.	<ul style="list-style-type: none"> ▪ Network Availability ▪ Latency ▪ Packet Delivery ▪ Site to Site Bandwidth throughput between locations
Provide high-quality universal medical services by allowing access to medical specialists to patients without leaving their communities.	<ul style="list-style-type: none"> ▪ Number of remote medical professional opportunities ▪ Number of consortium physicians participating in remote specialist opportunities ▪ Number of strategies used to promote the sharing of best practices ▪ Number of best practices shared ▪ Dollars saved based on regional demand aggregation
Provide next generation access between research institutions and Health Care institutions by providing access to Internet 2.	<ul style="list-style-type: none"> ▪ Number of consortium locations participating in Internet 2 connectivity ▪ Number of non-member sites connecting to consortium locations through I2
Create a, cost-efficient, effective, creative, replicable, and scalable model for intensive care doctors and nurses to monitor critically ill patients at multiple locations around the clock.	<ul style="list-style-type: none"> ▪ Present strategies and methods employed to develop the network as well as successes and challenges at local, regional and national conferences ▪ Communicate network initiatives and successes through newsletters and websites ▪ Host planning workshops
Use formative and summative evaluations to ensure success.	<ul style="list-style-type: none"> ▪ Number of evaluations ▪ Evaluation results

Self-Sustaining Network

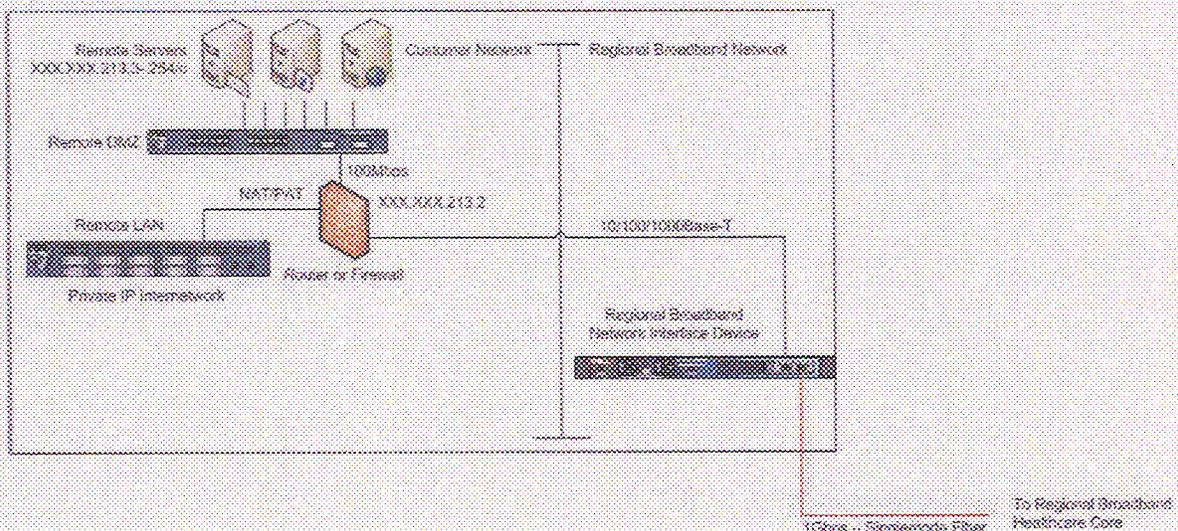
The Southwestern PA Regional Broadband Health Care Network is completely self-sustaining from the Health Care Institutions since it consists of standards based IP broadband communication links from the core Hospital in Beaver, The Medical Center, to the network core of each location. As a result of the establishment of the Regional Broadband Educational Network with this past E-Rate funding season, it was determined that the most cost effective broadband solution was to expand the existing broadband educational design and construct a single mode fiber optic network connecting each of the Health Care Locations to this network. The preliminary route for the expansion of the infrastructure is shown in the attached diagram and was selected for its performance, reliability, scalability, security and total cost of ownership.

The transmission over the backbone shall provide 1Gbps connectivity from each location to the network core. The handoff at each location shall be a 10/100/1000 autosensing connection.

Each location shall be assigned its own set of routed Public IP address ranges from the core. The IP range shall allow each location to have their own forward looking internet servers including email and web in the XXX.XXX.XXX.3-254/c range. Allowing each location to have a public range shall simplify the future connection to other Regional Health Care networks by maintaining a public IP range for all members. In addition, the handoff shall allow the remote locations to maintain their security firewall and utilize network and port address translation.

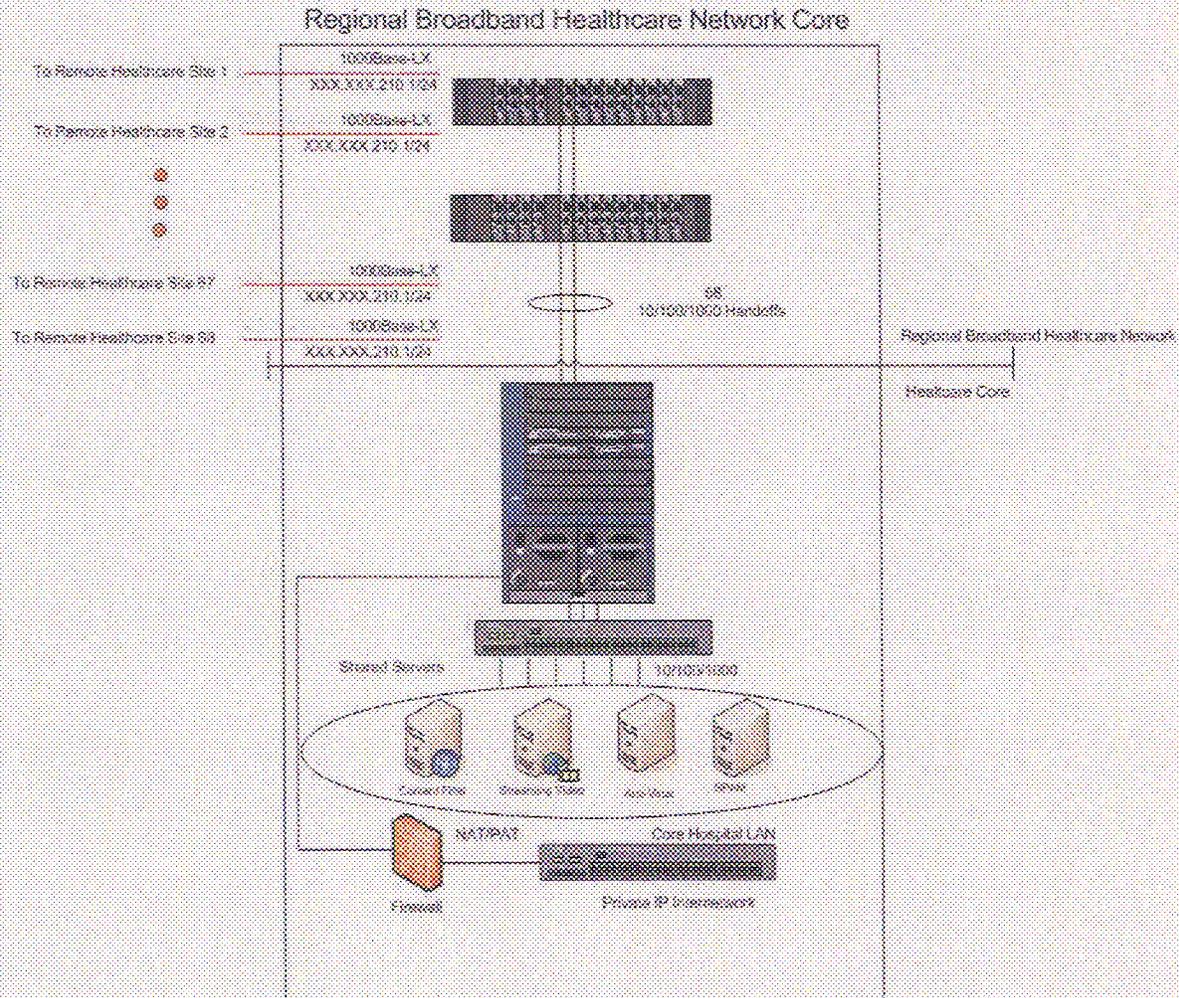
Network Address Translation (NAT) at each location shall allow for IP address simplification and conservation, as it will enable each location to have its own private IP internetworks that uses nonregistered IP addresses to connect to the Regional Broadband Network.

The following is a diagram of a single remote location connectivity to the Regional Network:
 Remote Healthcare Location



The network core shall terminate in a Layer 3 Cisco Metro-Ethernet switch. The core switch is configured for non-stop operation, with redundant management modules, redundant power modules and fan redundancy. The switch supports hitless software upgrades and graceful restart

routing for fast convergence in the event of a management module failure. The routing between the Health Care networks shall utilize Open Shortest Path First (OSPF) routing scalable to over 400,000 routes. This shall allow Institution to Institution connectivity via direct IP routes through the core switch. The core switch shall also have its own Public IP range for shared Consortium servers including Anti-Virus, SPAM, Content Filtering and Streaming Video. The core network switch shall be as follows:



The Regional Broadband Health Network shall provide Internet 2 connectivity utilizing BGPv4 routing. The Internet transport shall be provided through a 50Mbps fiber connection to the Pittsburgh Super Computer Center. The BGPv4 connection is scalable to 1 million IPv4 routes, 200 peers, route-flap dampening, confederations, route-reflectors, route-maps and peer groups.

BGP-Guard shall be implemented, which complements MD5 security for BGP sessions, to protect against session disruption by restricting the number of hops the BGP session can traverse.

The connection shall be able to provide up to 1Gbps of bandwidth to the Pittsburgh Super Computer Center without any electronic or optical changes.

The network shall be based on open technology standards. The network shall have complete IP based end-to-end interoperability and shall allow the sharing of resources among any standards based IP networks.

As national Health Care entities began to share converged voice, video and data resources the primary network factors shall be interoperability and quality of service. The Southwestern PA Regional Broadband network shall be able to interoperate with any standard QoS method including those based on port, VLAN, Source MAC, ACL, 802.1p, and DSCP.

The initial implementation of QoS in the Southwestern PA Regional Broadband Network, which can be expanded to other regional networks, shall utilize Differentiated Services Code Point (DSCP). The DSCP shall enable packets that pass from the private IP internetworks to centralized servers through the layer 3 core to have their priorities differentiated from one another. As a result the network shall be able to differentiate between voice, video and data networks and provide Quality of Service traffic prioritization rules to support converged Health Care services. The network will be capable of passing and receiving DSCP tags beyond to the regional network to other entities and allow a large scale QoS network to be established.

The DSCP shall be established utilizing industry standards by setting the first six bits of the Type of Service (ToS) field in the IP header of the packets traveling from the Districts to the core. The DSCP information shall result in the order of traffic precedence being voice, video and then data. The network shall also be set up so that it is backward compatible with non-DSCP networks .

With the Regional Broadband DSCP marking, the network can establish aggregated precedence-based queues and provide better service to packets that have a higher relative priority. This shall be helpful as a state and national network is developed and packets services are subject to queuing, such as when there are significant network traffic loads associated with streaming media presentations and other real-time data streams.

The network shall allow the Health Care Consortium to be an early adopter of IPv6. The network shall support the IPv6 protocol VLANs to create separate IPv4 and IPv6 broadcast domains. The core equipment has a rich IPv6 feature set that maintains many of the basic attributes of IPv4 while offering new capabilities and increased flexibility, and addresses key challenges inherent to IPv4 such as growth, QoS and security. The IPv6 feature set includes:

- Huge IPv6 address space for global scalability and reachability
- IPv6 neighbor discovery to facilitate finding and keeping track of neighbors
- Stateless auto-configuration and subnet renumbering lets hosts dynamically configure their own addresses and simplifies IP addresses changes

- Path MTU discovery facilitates the handling of fragmented packets along an IPv6 path, streamlining router processing and increasing performance
- RIPng offers the same benefits as RIPv2 (RFC 1271) with support for IPv6 prefixes
- OSPFv3 designed to handle the increased address size with enhanced processing
- BGP for IPv6 increases scalability with support for IPv6 addresses
- Hierarchical addressing structure designed to reduce the number of routes and increase efficiency
- Dual Stacks enable seamless integration of IPv4 and IPv6 networks
- Three different types of tunneling to facilitate the migration to IPv6 in an IPv4

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**SOUTHWESTERN PA
REGIONAL BROADBAND
HEALTH CARE NETWORK**

USING

THE

RURAL HEALTH CARE

PILOT PROGRAM

WC DOCKET NO. 02-60

Prepared and Submitted:

May 7, 2007

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