

**Pilot Program Quarterly Report of Iowa Health System
Period 10/1/10 – 12/31/10
WC Docket No. 02-60**

1. Project Contact and Coordination Information

- a. Identify the project leader(s) and respective business affiliations.**

Bill Leaver, President and CEO
Iowa Health System

- b. Provide a complete address for postal delivery and the telephone, fax, and e-mail address for the responsible administrative official.**

Bill Leaver
President and CEO
Iowa Health System
1200 Pleasant Street
Des Moines, IA 50309
Telephone: 515-241-6347
Fax: 515-241-5712
E-mail: LeaverWB@ihs.org

- c. Identify the organization that is legally and financially responsible for the conduct of activities supported by the award.**

Iowa Health System
1200 Pleasant Street
Des Moines, IA 50309

- d. Explain how project is being coordinated throughout the state or region.**

The project is being coordinated by Iowa Health System (“IHS”) leadership in consultation with Fiberutilities Group LLC.

After identifying potential participants and attending RHCPP training, IHS met with potential participants in the region. As a result of that meeting, IHS received letters of agency from 29 initial participants.

A meeting of initial participants was held in Des Moines, Iowa on June 5, 2008 to discuss the project as well as a proposed governance structure that emphasizes participant input into the project’s operations. A second meeting of this group was held September 3, 2008 in Des Moines. Since that date, the group has also met on April 2, 2009, June 3, 2009 and July 15, 2009. Going forward, the group intends to meet on at least a monthly basis either in person, by video conference, or by teleconference. This group will play a central role in the governance and operation of the project to ensure that it best meets participants’ needs.

A RFP for 15 year lit capacity IRUs for access to the IHS backbone network was issued on October 6, 2008 with bid closure on November 17, 2008. Bid responses to the RFP were received from 10 vendors. All bid response data was compiled, analyzed, and scored resulting in the selection of vendors for final contract negotiation. IHS entered into IRU agreements with MCC Telephony, L.L.C. and the Iowa Communications Network on March 10, 2009.

One eligible participant, Grinnell Regional Medical Center, opted to not participate in phase one deployment and was subsequently removed from the FCC support request. IHS continues to identify and meet other potential participants whom IHS anticipates will join the project in future deployment phases.

The 466A, 466A attachments, vendor certification form, Network Cost Worksheets and other required paperwork and response information was uploaded to USAC for processing. A Funding Commitment Letter was issued for MCC Telephony, L.L.C. on March 27, 2009 and a Funding Commitment Letter for the Iowa Communications Network was issued on April 13, 2009. All paperwork is on file with the USAC.

A pre-launch participant meeting was held in Des Moines, Iowa on April 2, 2009 to update participants on status and continuing to prepare for initial network usage when completed. All initial participants signed the paperwork necessary to belong to HealthNet connect, L.C., who as agent for IHS provides and administers the RHCPP last mile connections to the IHS network. A press conference announcing the network launch to the public was held in Des Moines, Iowa on April 14, 2009, at which Tom Buckley, the Deputy Division Chief of the Telecommunications Access Policy Division of the FCC's Wireline Competition Bureau was present and spoke.

All last mile connections for initial participants were completed, tested, and accepted by mid July 2009. Internet 2 invoice requirements were submitted and all payments made. Two invoices for MCC Telephony (sc) and one invoice for the Iowa Communications have been paid in full. All paperwork is on file with USAC

Local customer edge routers are the final step toward connectivity to the network and are provided by the participants at the participant's expense. Ninety percent of initial participants' routers have been procured, installed and configured as of this Quarterly Report.

The governing board meets monthly to discuss the status of the project, discuss potential new members, announce new applications available to participants over the network, and maintain an ongoing planning dialog related to future application rollouts to improve health care, particularly in rural areas.

It is anticipated that the second RFP will be prepared prior to the end of calendar year 2009.

Update: The second RFP is anticipated to be posted in the first quarter of 2010.

The second RFP and associated paperwork was at USAC as of 3/31/10 with responses to USAC questions. As of that date the RFP has not yet been posted.

The Phase 2 RFP was posted to the USAC site on April 13th, 2010 with a bid closing date of June 11th, 2010. As of June 11th, 2010, bid responses had been received from 7 vendors covering 35 of the 41 locations offered for bid. Bids were in the process of being analyzed and scored as of June 30th, 2010. No awards were made as of June 30th, 2010 although it is anticipated that numerous Phase 2 RFP awards will be made by mid July 2010.

Funding Commitment Letters for Phase 2 were issued by USAC on September 30th, 2010. This added an additional 30 members to the network leaving only 1 remaining Phase 2 participant still in the contract negotiation phase. Total active or "in process under FCL" participants in HNC as of October 1st, 2010 will total 59 leaving 19 participants to process in Phase 3 to complete the project.

Phase 2 deployment began in December of 2010. As of 12/31/10, three new sites were physically connected from the Phase 2 group and are currently in the invoicing process with USAC.

It was anticipated that a Phase 3 RFP will be issued by the end of 2010 to complete the

project. The Phase 3 RFP was not released as of 12/31/10. It is currently anticipated the Phase 3 RFP will be released by mid January 2011.

Further updates and relevant details will follow in subsequent Quarterly Reports as new participants come online and health care-related applications are launched.

2. Identify all health care facilities included in the network.

- a. **Provide address (including county), zip code, Rural Urban Commuting Area (RUCA) code (including primary and secondary), six-digit census tract, and phone number for each health care facility participating in the network.**
- b. **For each participating institution, indicate whether it is:**
 - i. **Public or non-public;**
 - ii. **Not-for-profit or for-profit;**
 - iii. **An eligible health care provider or ineligible health care provider with an explanation of why the health care facility is eligible under section 254 of the 1996 Act and the Commission's rules or a description of the type of ineligible health care provider entity.**

See revised Attachment A. The 28 entities listed in Attachment A are eligible participants who have signed a letter of agency with IHS. Of those 28 eligible institutions, 26 are receiving RHCPP funding support as part of the phase one installation process. The remaining two eligible entities are not receiving funding support at the time of this report.

Note: The eligible health care providers are eligible because they are nonprofit hospitals under 47 U.S.C. Section 254(h) (7) (B).

As of December 31st, 2009 one eligible entity (that did NOT receive FCC funding support) has opted to no longer participate in. Mercer County Hospital, Aledo, Illinois, is no longer a member.

The Phase 2 RFP closed on June 30th 2010, and as of that date, no awards to add new participants to the network were made.

See revised Attachment A1 (supercedes Attachment A) outlining pre existing HNC members as well as 30 participants receiving FCL on September 30th, 2010. Total HNC active or under "in process under FCL" participation stands at 59 participants.

There were 3 additional sites physically connected to HNC from Phase 2 as of 12/31/10.

- 3. Network Narrative: In the first quarterly report following the completion of the competitive bidding process and the selection of vendors, the selected participant must submit an updated technical description of the communications network that it intends to implement, which takes into account the results of its network design studies and negotiations with its vendors. This technical description should provide, where applicable:**
- a. **Brief description of the backbone network of the dedicated health care network, e.g., MPLS network, carrier-provided VPN, a SONET ring;**

The combination of the access connections and the IHS-owned backbone network is a private fiber network equipped with Layer 2 (Ethernet) transport equipment and Layer 3 (packets) core routers. (See Attachment B). The network will be connected to National

Lambda Rail (“NLR”) and Internet 2. The network is currently lit to 2 Gbps of total capacity and can grow to 10Gbps by inserting small form pluggable (SFP) optics into existing 10 lambda CWDM muxes/demuxes at the appropriate equipment locations in the network.

As of December 31st 2010 this response represents no changes from the previous Quarterly Report.

b. Explanation of how health care provider sites will connect to (or access) the network, including the access technologies/services and transmission speeds;

The access connections to the IHS-owned backbone network will be a fiber-based transparent LAN solution providing symmetrical 100Mbps of Ethernet connectivity using Gigabit Ethernet Passive Optical Network (GEAPON) technology to the premise. The Layer 2 Ethernet solution will support VoIP, 802.1 Q VLAN tagging, and video streaming, in addition to data transport.

It is anticipated that additional participants will connect to a centralized router in the IHS backbone network via a direct build fiber or carrier access facilities.

As of December 31st, 2010 this response represents no changes from the previous Quarterly Report.

c. Explanation of how and where the network will connect to a national backbone such as NLR or Internet 2;

The network will connect to NLR and Internet 2 via the Metropolitan Research and Education Network (“MREN”) located at Northwestern University in Chicago. The connections will be a 1 gigabit per second interface with MREN’s shared lit fiber access to NLR and Internet 2. 466A related funding support documents for Internet 2 membership dues were submitted to USAC on April 9, 2009 for review and processing.

Internet 2 and NLR connectivity has been completed and tested. Participants who have completed their Customer Edge Router configurations have access to I2 / NLR network endpoints.

As of December 31st, 2010 this response represents no changes from the previous Quarterly Report.

d. Number of miles of fiber construction, and whether the fiber is buried or aerial;

The RFP for access to the IHS-owned backbone network requested a 15 year lit capacity IRU for 100 Mbs symmetrical Ethernet. No fiber construction using RHCPP funds is anticipated to deliver the access connections to the initial group of eligible participants connecting to the network.

It is anticipated that some future sites will involve some direct fiber builds. Those fiber construction elements would be reported in subsequent Quarterly Reports.

As of September 30th 2010 this response represents no changes from the previous

Quarterly Report.

- e. **Special systems or services for network management or maintenance (if applicable) and where such systems reside or are based.**

Layer 3 network management will be accomplished by a provider edge router on the participant's premise located at the end of the provider's connection. It will be managed by IHS. All other management and maintenance of equipment related to the access connection will be provided by the vendor providing the 15 year lit capacity IRU.

As of December 31st, 2010 this response represents no changes from the previous Quarterly Report.

4. List of Connected Health Care Providers: Provide information below for all eligible and non-eligible health care provider sites that, as of the close of the most recent reporting period, are connected to the network and operational.

- a. **Health care provider site;**
- b. **Eligible provider (Yes/No);**
- c. **Type of network connection (e.g., fiber, copper, wireless);**
- d. **How connection is provided (e.g., carrier-provided service; self-constructed; leased facility);**
- e. **Service and/or speed of connection (e.g., DS1, DS3, DSL, OC3, Metro Ethernet (10 Mbps);**
- f. **Gateway to NLR, Internet2, or the Public Internet (Yes/No);**
- g. **Site Equipment (e.g., router, switch, SONET ADM, WDM) including manufacturer name and model number.**
- h. **Provide a logical diagram or map of the network.**

The access connections related to this network have not been completed at the time covered by this Quarterly Report (April 1, 2009 through June 30, 2009), however construction / configuration was underway with substantial completion anticipated by June 30, 2009. Accordingly, as of the close of the most recent reporting period, there were no "Connected Health Care Providers" connected to the network and operational. Attachment C is a map of the proposed network. (See also Attachment B for a logical diagram of the access connections.)

During the period April 1, 2009 through June 30, 2009 a total of 14 members had their access connection completed, tested, and accepted. The remaining members were completed, tested and accepted by July 23, 2009. See Attachment B for a logical diagram of the access connections.

See revised Attachments A and C indicating eligible participants connected as of December 31st, 2009.

See Attachments A1, C and C1 indicating eligible participants connected or "in process under FCL" as of December 31st, 2010

5. Identify the following non-recurring and recurring costs,⁴²³ where applicable shown both as budgeted and actually incurred for the applicable quarter and funding year-to-date.

- a. **Network Design**

Network design was funded by IHS, independent of the RHCPP and cost recovery for design costs will not be sought through that program.

As of December 31st, 2010 this response represents no changes from the previous Quarterly Report.

⁴²³Non-recurring costs are flat charges incurred only once when acquiring a particular service or facility. Recurring costs are costs that recur, typically on a monthly basis, because they vary with respect to usage or length of service contract.

b. Network Equipment, including engineering and installation

See Attachment D for budgeted costs. Actual costs for participants who received FCL in phase one are on file at USAC in the form of 466A attachment and Network Cost Worksheet.

Actual costs for participants “in process under FCL” as of September 30th 2010 are on file at USAC in the form of 466A attachment and Network Cost Worksheet.

As of December 31st, 2010 this response represents no changes from the previous Quarterly Report.

c. Infrastructure Deployment/Outside Plant

- i. Engineering**
- ii. Construction**

See Attachment D for budgeted costs. Actual costs for participants who received FCL in phase one are on file at USAC in the form of 466A attachment and Network Cost Worksheet

Actual costs for participants “in process under FCL” as of September 30th 2010 are on file at USAC in the form of 466A attachment and Network Cost Worksheet.

As of December 31st, 2010 this response represents no changes from the previous Quarterly Report.

d. Internet2, NLR, or Public Internet Connection

As of December 31st, 2009 Internet 2 and NLR are fully functional and all initial participants who have their customer edge router configured have access to all I2 / NLR network endpoints. The actual recurring cost for interconnecting to Internet2 is \$25,000. The actual recurring cost of interconnecting to MREN is \$28,800. Both of these costs are budgeted for future years. Public internet capability design, testing and user launch was completed in November 2009. Through December 31st 2009 a total of ten (ten) users ordered public internet connections ranging from 10 to 50 megabits in size. Users continue to integrate Internet into their onsite LAN designs and security configurations.

As of September 30th 2010 Internet 2 and MREN contracts for HNC have been renewed for current program year.

As of December 31st, 2010 this response represents no changes from the previous Quarterly Report.

e. Leased Facilities or Tariffed Services

See Attachment D for budgeted costs. Actual costs for participants who received FCL in phase one are on file at USAC in the form of 466A attachment and Network Cost Worksheet.

Actual costs for participants “in process under FCL” as of September 30th 2010 are on file at USAC in the form of 466A attachment and Network Cost Worksheet.

As of December 31st, 2010 this response represents no changes from the previous Quarterly Report.

f. Network Management, Maintenance, and Operation Costs (not captured elsewhere)

See Attachment D for budgeted costs. Actual costs for participants who received FCL in phase one are on file at USAC in the form of 466A attachment and Network Cost Worksheet.

Actual costs for participants “in process under FCL” as of September 30th 2010 are on file at USAC in the form of 466A attachment and Network Cost Worksheet.

As of December 31st, 2010 this response represents no changes from the previous Quarterly Report.

g. Other Non-Recurring and Recurring Costs

There are no other non-recurring or recurring costs related to the access connections as of this Quarterly Reporting period.

As of December 31st, 2010 this response represents no changes from the previous Quarterly Report.

6. Describe how costs have been apportioned and the sources of the funds to pay them:

a. Explain how costs are identified, allocated among, and apportioned to both eligible and ineligible network participants.

Ineligible participants must fund 100% of their cost to access the backbone network of IHS. Eligible entities connecting in the first phase of deployment will have 15% of their access costs funded by IHS and 85% funded by the RHCPP. IHS is funding 100% of the capital, maintenance, and operational costs of the backbone network. Thus, no cost allocation is required between eligible and ineligible entities for backbone network costs.

As of December 31st, 2010 this response represents no changes from the previous Quarterly Report.

b. Describe the source of funds from:

- i. Eligible Pilot Program network participants**
- ii. Ineligible Pilot Program network participants**

See Attachment D.

As of December 31st, 2010 this response represents no changes from the previous Quarterly Report.

- c. **Show contributions for all other sources (e.g., local, state, and federal sources, and other grants).**
 - i. **Identify source of financial support and anticipated revenues that is paying for costs not covered by the fund and by Pilot Program participants.**
 - ii. **Identify the respective amounts and remaining time for such assistance.**

See Attachment D.

As of December 31st, 2010 this response represents no changes from the previous Quarterly Report.

- d. **Explain how the selected participant's minimum 15 percent contribution is helping to achieve both the selected participant's identified goals and objectives and the overarching goals of the Pilot Program.**

The 15% contribution by IHS for initial participants will help IHS achieve its objectives by allowing it to create health care provider access connections to its backbone network which, as stated in its Application to the RHCPP, “[are] capable of handling multigigabit data transmissions and the bandwidth intensive applications often associated with advanced imaging and diagnostic services.” It may also permit the transmission of health care data in other forms such as through the use of continuity of care documents and the creation of a single patient identifier system, and it will grant access to the nationwide networks of NLR and Internet2 for interaction with health care providers across the nation.

As of December 31st, 2010 this response represents no changes from the previous Quarterly Report.

7. Identify any technical or non-technical requirements or procedures necessary for ineligible entities to connect to the participant's network.

There are no technical or non-technical requirements or procedures necessary for ineligible entities to connect to the backbone network of IHS except for the following:

- a) They must be a health care related entity;
- b) They must be a member of the HealthNet connect, L.C. participant group established to provide and administer access to the IHS backbone network as agent for IHS;
- c) They must pay the full cost of access connection costs, including the upgrade of their equipment. Please note that although the IHS Sustainability Plan (“Attachment D”) states that ineligible participants will not be using any portion of the access connections funded under the RHCPP, it is nevertheless possible that an ineligible entity could use a RHCPP funded access connection as long as the ineligible entity pays its fair share of access connection costs attributable to the portion of access connection capacity used by the ineligible entity as required by the RHCPP order; and
- d) They must meet the Quality of Service (QoS) and security (provider edge router) criteria specified in the RFP.

As of December 31st, 2010 this response represents no changes from the previous Quarterly Report.

8. Provide an update on the project management plan, detailing:

- a. The project’s current leadership and management structure and any changes to the management structure since the last data report; and**

IHS will provide project leadership using its existing management structure through its executive management team and its IT Department, which contains more than 200 experienced information technology professionals and currently manages the largest private medical network in the state. IHS will provide project leadership and guidance as well to the participant group that is responsible for administering and providing access to the IHS backbone network as agent for IHS. Moreover, IHS is the largest integrated nonprofit regional health care system in Iowa, serving a geographically dispersed rural population in the upper Midwest. IHS operates facilities in ten large communities in Iowa and two large Illinois supporting a system of rural hospitals in 12 Iowa communities and partnering with numerous physicians and clinics in more than 64 communities in Iowa, Illinois, Nebraska and South Dakota. IHS anticipates the continued utilization of this experience for the leadership, management and execution of this initiative.

The following is the project’s current leadership and management structure:

Project Coordinator/ Chief Executive Officer	Bill Leaver, Iowa Health System
Chief Information Officer	Joy Grosser, Iowa Health System
Interim Administrative Director	Khristine Jacobsen, Iowa Health System
Assistant Project Coordinator	Stacie Caryl, Iowa Health System
Consultant	Dave Lunemann, Fiberutilities Group
	Pat Cram, Fiberutilities Group
Legal Counsel	Denny Drake, Iowa Health System
	Joe Clamon, Iowa Health System
	Carey Gehl Supple Iowa Health System

- b. In the first quarterly report, the selected applicant should provide a detailed project plan and schedule. The schedule must provide a list of key project**

deliverables or tasks, and their anticipated completion dates. Among the deliverables, participants must indicate the dates when each health care provider site is expected to be connected to the network and operational. Subsequent quarterly reports should identify which project deliverables, scheduled for the previous quarter, were met, and which were not met. In the event a project deliverable is not achieved, or the work and deliverables deviate from the work plan, the selected participant must provide an explanation.

**Estimated Project Plan Estimated Timelines / Milestones
(Updated with each quarterly report to reflect changes / progress of the overall project)**

- | | |
|---|-------------------|
| 1. 465 / attachments with RFP Bid Package draft complete | 5/21/08 Complete |
| 2. Completed bid package sent to USAC for comments / review | 5/21/08 Complete |
| 3. Initial healthcare provider (“HCP”) orientation meeting in Des Moines | 6/5/08 Complete |
| 4. Preliminary USAC comments returned | 7/10/08 Complete |
| 5. USAC / FCC Quarterly Report due | 7/30/08 Complete |
| 6. Second HCP orientation / governance meeting in Des Moines | 9/3/08 Complete |
| 7. IHS project team review and revision complete | 9/30/08 Complete |
| 8. Final 465/465 attachments/RFP uploaded for USAC administrative review | 10/2/08 Complete |
| 9. Final 465/465 attachments/RFP posted to USAC website | 10/6/08 Complete |
| i. 28 day bid clock starts | |
| ii. overall project clock starts | |
| 10. First vendor clarification call | 10/10/08 Complete |
| 11. Second vendor clarification call | 10/24/08 Complete |
| 12. Second Quarterly Report submitted to USAC | 10/30/08 Complete |
| 13. Third vendor clarification call | 11/12/08 Complete |
| 14. Bid closure / all initial HCP group bids received by IHS review team | 11/17/08 Complete |
| 15. Bids analyzed and successful bidders determined | 12/19/08 Complete |
| i. winning bidders notified | |
| ii. non winning bidders notified | |
| 16. 466A / network worksheets submitted to USAC | 3/10/09 Complete |
| 17. Contracts signed with vendors | 3/10/09 Complete |
| 18. FCL’s issued by USAC to IHS for winning bid
Note: ICN FCL issued 4/10/09 | 3/27/09 Complete |
| 19. Access connection installations begin | 3/27//09 Complete |
| 20. Access connections completed for initial participants | 6/30/09 Complete |

21. Participant applications launch/kickoff	8/15/09 Complete
22. Secondary marketing and sales efforts	1/1/09 – 12/31/09 Complete
23. FCC / USAC award funding years 1 & 2	6/30/09 Complete
24. Public internet product launch	11/1/09 Complete
25. Phase 2 RFP due diligence / prep for additional participants	12/15/09 Complete
26. Phase 2 RFP posting for additional participants	4/13/10 Complete
27. Phase 2 RFP bid closure	6/11/10 Complete
28. FCC / USAC Funding Year 3 complete	6/30/10 Complete
29. Phase 2 RFP bid responses scored and bid awards made to winning vendors	9/7/10 Complete
30. Phase 2 RFP FCLs issued for additional participants	9/30/10 Complete
31. Phase 2 RFP work awarded begins for additional participants	9/30/10 Complete
32. Phase 3 RFP due diligence completed	11/15/10 Complete
33. Phase 2 RFP work complete for additional participants	12/1/10 – 5/1/11 revised*
34. Phase 3 RFP posted to USAC website	1/15/11 revised*
35. Phase 3 RFP bid closure	2/25//11 revised*
36. Phase 3 RFP bid responses scored and bid awards made to winning vendors	3/18/11 revised*
37. Phase 3 RFP FCLs issued for additional participants	5/6/11 revised*
38. Phase 3 RFP work awarded begins for additional participants	5/9/11 revised*
39. Phase 3 RFP work complete for additional participants	7/9/11 – 9/9/11 revised*
40. RHCPP Funding Year 4 (extended year) Complete	6/30/11 revised*

*These project deliverable dates are different from the previous Quarterly Report due to normal and anticipated changes in the project management workflow.

9. Provide detail on whether network is or will become self sustaining. Selected participants should provide an explanation of how network is self sustaining.

See Attachment D.

As of December 31st, 2010 this response represents no changes from the previous Quarterly Report.

10. Provide detail on how the supported network has advanced telemedicine benefits:
a. Explain how the supported network has achieved the goals and objectives outlined

- in selected participant's Pilot Program application;
- b. Explain how the supported network has brought the benefits of innovative telehealth and, in particular, telemedicine services to those areas of the country where the need for those benefits is most acute;
 - c. Explain how the supported network has allowed patients access to critically needed medical specialists in a variety of practices without leaving their homes or communities;
 - d. Explain how the supported network has allowed health care providers access to government research institutions, and/or academic, public, and private health care institutions that are repositories of medical expertise and information;
 - e. Explain how the supported network has allowed health care professional to monitor critically ill patients at multiple locations around the clock, provide access to advanced application in continuing education and research, and/or enhanced the health care community's ability to provide a rapid and coordinated response in the event of a national crisis.

Construction of the access connections related to this network had begun but had not completed during the ending time period covered by the prior Quarterly Report (March 31, 2009). Accordingly, there are no advanced telemedicine benefits to report at this time.

Physical access connections were completed at the time of this Quarterly Report. It is IHS's belief the initial launch of selected applications will commence soon.

As of December 31st, 2009 the public internet product has been launched offering users larger bandwidth at lower cost per megabit than existing alternatives enhancing the capabilities for internet accessed health care applications. Bandwidth is also symmetrical. Users are ordering product as needed and configuring in their local onsite LAN as needed.

As of 3/31/10 numerous HNC participants have fully integrated the HNC Internet product into their local network design configurations.

The "member to member" HNC WAN conversion project plan has concluded individual technology assessments with users and in the upcoming quarter will be configuring all existing "member to member" connections.

A large radiology group (ineligible entity) that serves multiple HNC hospitals is anticipated to join HNC in the upcoming quarter.

Updates will occur in future quarterly reports regarding new vendors joining HNC to make their applications available to HCP's.

As of December 31st, 2010 this response represents no changes from the previous Quarterly Report.

11. Provide detail on how the supported network has complied with HHS health IT initiatives:

- a. Explain how the supported network has used health IT systems and products that meet interoperability standards recognized by the HHS Secretary;
- b. Explain how the supported network has used health IT products certified by the Certification Commission for Healthcare Information Technology.
- c. Explain how the supported network has supported the Nationwide Health Information Network (NHIN) architecture by coordinating activities with organizations performing NHIN trial implementations;
- d. Explain how the supported network has used resources available at HHS's Agency for Information Technology;

- e. **Explain how the selected participant has educated themselves concerning the Pandemic and All Hazards Preparedness Act and coordinated with the HHS Assistant Secretary for Public Response as a resource for telehealth inventory and for the implementation of other preparedness and response initiatives; and**
- f. **Explain how the supported network has used resources available through HHS's Centers for Disease Control and Prevention (CDC) Public Health Information Network (PHIN) to facilitate interoperability with public health and emergency organizations.**

Construction of the access connections related to this network had begun but had not completed during the ending time period covered by the prior Quarterly Report (March 31, 2009). Accordingly, there are no advanced telemedicine benefits to report at this time.

Physical access connections were completed at the time of this Quarterly Report. It is IHS's belief the initial launch of selected applications will commence soon.

As of December 31st, 2009 it has not been feasible to coordinate with HHS and CDC due to lack of outlined interoperability standards.

As of December 31st, 2010 this response represents no changes from the previous Quarterly Report.

- 12. Explain how the selected participants coordinated in the use of their health care networks with the Department of Health and Human Services (HHS) and, in particular, with its Centers for Disease Control and Prevention (CDC) in instances of national, regional, or local public health emergencies (e.g., pandemics, bioterrorism). In such instances, where feasible, explain how selected participants provided access to their supported networks to HHS, including CDC, and other public health officials.**

Construction of the access connections related to this network had begun but had not completed during the ending time period covered by the prior Quarterly Report (March 31, 2009). Accordingly, there are no advanced telemedicine benefits to report at this time.

Physical access connections were completed at the time of this Quarterly Report. It is IHS's belief the initial launch of selected applications will commence soon.

As of December 31st, 2009 it has not been feasible to coordinate with HHS and CDC due to lack of outlined interoperability standards.

As of December 31st, 2010 this response represents no changes from the previous Quarterly Report.

ATTACHMENT A1
HealthNet connect Phase 2 Users
(Eligible Healthcare Providers)

HCP	ADDRESS	CITY	STATE	ZIP	COUNTY	BLSA	CENSUS TRACT	PHONE NBR	PUBLIC OR NON-PUBLIC	FOR-PROFIT OR NONPROFIT	ELIGIBLE (Y/N)	REASON FOR ELIGIBILITY	HCP	TYPE OF NETWORK CONNECTION	HOW NETWORK IS PROVIDED	SPEED OF CONNECTION	GATEWAY TO I2?	SITE EQUIPMENT
Alloy Hospital	1825 Lagan Ave	Wichitan	IA	67201	Black Hawk	1	38912	(515) 241-2844	Non-Public	Non-Profit	Y	Non-Profit Hospital	Alloy Hospital	Li Service	Leased Service	100 Mbps	Yes	Proxider Edge Router - Juniper 2350 or equivalent
**Bank Medical Center / Iowa Methodist Medical Center	1300 Margaret St	Des Moines	IA	50309	Polk	1	00510	942	Non-Public	Non-Profit	Y	Non-Profit Hospital	Iowa Methodist Medical Center	Li Service	Leased Service	100 Mbps	Yes	Proxider Edge Router - Juniper 2350 or equivalent
Broadview Medical Center	1801 Hickman Rd	Des Moines	IA	50314	Polk	1	00120	(515) 282-2200	Public	Non-Profit	Y	Non-Profit Hospital	Broadview Medical Center	Li Service	Leased Service	100 Mbps	Yes	Proxider Edge Router - Juniper 2350 or equivalent
Buena Vista Regional Medical Center	1025 West Fifth Street	Buena Vista	IA	50584	Buena Vista	7	80550	(712) 772-4030	Public	Non-Profit	Y	Non-Profit Hospital	Buena Vista Regional Medical Center	Li Service	Leased Service	100 Mbps	Yes	Proxider Edge Router - Juniper 2350 or equivalent
Cass County Memorial Hospital	1001 E 10th St	Atlantic	IA	50022	Cass	7	99400	(712) 243-2250	Public	Non-Profit	Y	Non-Profit Hospital	Cass County Memorial Hospital	Li Service	Leased Service	100 Mbps	Yes	Proxider Edge Router - Juniper 2350 or equivalent
Cass County Memorial Hospital	805 South Franklin	Atlantic	IA	50022	Cass	7	99400	(712) 243-2250	Public	Non-Profit	Y	Non-Profit Hospital	Cass County Memorial Hospital	Li Service	Leased Service	100 Mbps	Yes	Proxider Edge Router - Juniper 2350 or equivalent
Community Memorial Hospital	809 West 1 st St	Sumner	IA	50674	Brewer	10	00470	(563) 578-5275	Non-Public	Non-Profit	Y	Non-Profit Hospital	Community Memorial Hospital	Li Service	Leased Service	100 Mbps	Yes	Proxider Edge Router - Juniper 2350 or equivalent
Dallas County Hospital	610 10th St	Phary	IA	50220	Dallas	7,3	00300	(515) 465-3547	Public	Non-Profit	Y	Non-Profit Hospital	Dallas County Hospital	Li Service	Leased Service	100 Mbps	Yes	Proxider Edge Router - Juniper 2350 or equivalent
Grinnell Regional Medical Center	1100 W. Dowling St # 9	Grinnell	IA	50881	Dallas	7	99400	(641) 782-2091	Public	Non-Profit	Y	Non-Profit Hospital	Grinnell Regional Medical Center	Li Service	Leased Service	100 Mbps	Yes	Proxider Edge Router - Juniper 2350 or equivalent
Greene County Medical Center	1900 W. Dowling St	Jefferson	IA	50220	Greene	7	99400	(515) 386-3114	Public	Non-Profit	Y	Non-Profit Hospital	Greene County Medical Center	Li Service	Leased Service	100 Mbps	Yes	Proxider Edge Router - Juniper 2350 or equivalent
Grinnell Regional Medical Center	2101 E. Ave	Grinnell	IA	50111	Poweshook	7	97040	(641) 236-7433	Non-Public	Non-Profit	Y	Non-Profit Hospital	Grinnell Regional Medical Center	Li Service	Leased Service	100 Mbps	Yes	Proxider Edge Router - Juniper 2350 or equivalent
Grundy County Memorial Hospital	201 E 1 st Ave	Grundy Center	IA	50834	Grundy	10	99030	(319) 824-4421	Public	Non-Profit	Y	Non-Profit Hospital	Grundy County Memorial Hospital	Li Service	Leased Service	100 Mbps	Yes	Proxider Edge Router - Juniper 2350 or equivalent
Guthrie County Hospital	7700 N 12th St	Guthrie Center	IA	50101	Guthrie	10,4	99100	(641) 332-2200	Public	Non-Profit	Y	Non-Profit Hospital	Guthrie County Hospital	Li Service	Leased Service	100 Mbps	Yes	Proxider Edge Router - Juniper 2350 or equivalent
Guthrie Municipal Hospital	200 Main St	Guthrieburg	IA	52054	Guthrie	10,4	97040	(563) 252-2121	Public	Non-Profit	Y	Non-Profit Hospital	Guthrieburg Municipal Hospital	Li Service	Leased Service	100 Mbps	Yes	Proxider Edge Router - Juniper 2350 or equivalent
Humboldt County Memorial Hospital	1000 10th St N	Humboldt	IA	50544	Humboldt	7,4	97040	(515) 332-4200	Public	Non-Profit	Y	Non-Profit Hospital	Humboldt County Memorial Hospital	Li Service	Leased Service	100 Mbps	Yes	Proxider Edge Router - Juniper 2350 or equivalent
Iowa Lutheran Hospital	200 E University Ave	Des Moines	IA	50314	Polk	1	00480	(515) 263-6612	Non-Public	Non-Profit	Y	Non-Profit Hospital	Iowa Lutheran Hospital	Li Service	Leased Service	100 Mbps	Yes	Proxider Edge Router - Juniper 2350 or equivalent
Jackson County Hospital	700 W Grove St	Maquoketa	IA	52661	Jackson	7	99500	(563) 652-2474	Public	Non-Profit	Y	Non-Profit Hospital	Jackson County Hospital	Li Service	Leased Service	100 Mbps	Yes	Proxider Edge Router - Juniper 2350 or equivalent
Looring Hospital	211 Highland Ave	Sac City	IA	50583	Sac	10	98400	(712) 662-7105	Non-Public	Non-Profit	Y	Non-Profit Hospital	Looring Hospital	Li Service	Leased Service	100 Mbps	Yes	Proxider Edge Router - Juniper 2350 or equivalent
Mary Grady Medical Center	1111 Duff Ave	Ames	IA	50001	Brentz	4	00300	(515) 239-2011	Public	Non-Profit	Y	Non-Profit Hospital	Mary Grady Medical Center	Li Service	Leased Service	100 Mbps	Yes	Proxider Edge Router - Juniper 2350 or equivalent
Mayo Medical Center Clinic	1213 Curfield Ave	Des Moines	IA	50319	Polk	7	96030	(515) 255-5130	Public	Non-Profit	Y	Non-Profit Hospital	Mayo Medical Center Clinic	Li Service	Leased Service	100 Mbps	Yes	Proxider Edge Router - Juniper 2350 or equivalent
Pocahontas Community Hospital	666 NW 7th St	Pocahontas	IA	50274	Pocahontas	10	98020	(712) 335-5026	Public	Non-Profit	Y	Non-Profit Hospital	Pocahontas Community Hospital	Li Service	Leased Service	100 Mbps	Yes	Proxider Edge Router - Juniper 2350 or equivalent
St. Luke's Hospital	1026 A Ave NE	Madras	IA	52400	Lincoln	1	00310	(319) 369-7211	Non-Public	Non-Profit	Y	Non-Profit Hospital	St. Luke's Hospital	Li Service	Leased Service	100 Mbps	Yes	Proxider Edge Router - Juniper 2350 or equivalent
St. Luke's Regional Medical Center	2720 Stone Park Blvd	Sioux City	IA	51201	Woodbury	1	00100	(712) 279-5000	Non-Public	Non-Profit	Y	Non-Profit Hospital	St. Luke's Regional Medical Center	Li Service	Leased Service	100 Mbps	Yes	Proxider Edge Router - Juniper 2350 or equivalent
The Frisley Hospital	300 N Grandview Ave	Dubuque	IA	52001	Dubuque	1	00702	(563) 583-1881	Non-Public	Non-Profit	Y	Non-Profit Hospital	The Frisley Hospital	Li Service	Leased Service	100 Mbps	Yes	Proxider Edge Router - Juniper 2350 or equivalent
Trinity Medical Center at Terrace Park	4000 Linn Ridge Rd	Bethesda	IA	52722	Scott	1	01370	(515) 742-0000	Non-Public	Non-Profit	Y	Non-Profit Hospital	Trinity Medical Center at Terrace Park	Li Service	Leased Service	100 Mbps	Yes	Proxider Edge Router - Juniper 2350 or equivalent
Trinity Medical Center, 7th St Campus	200 John Deere Rd	Maquoketa	IA	52620	Rock Island	1	01310	(309) 779-0000	Non-Public	Non-Profit	Y	Non-Profit Hospital	Trinity Medical Center, 7th St Campus	Li Service	Leased Service	100 Mbps	Yes	Proxider Edge Router - Juniper 2350 or equivalent
Trinity Medical Center, West Campus	2701 17th St	Rock Island	IA	61201	Rock Island	1	02210	(309) 779-2914	Non-Public	Non-Profit	Y	Non-Profit Hospital	Trinity Medical Center, West Campus	Li Service	Leased Service	100 Mbps	Yes	Proxider Edge Router - Juniper 2350 or equivalent
Trinity Regional Medical Center	802 Reynolds Rd	Fort Dodge	IA	50501	Webster	4	00900	(515) 573-1100	Non-Public	Non-Profit	Y	Non-Profit Hospital	Trinity Regional Medical Center	Li Service	Leased Service	100 Mbps	Yes	Proxider Edge Router - Juniper 2350 or equivalent
Community Health Centers of Southern Iowa - Albia	14 W Washington	Albia	IA	52531	Monroe	7	07000	(641) 446-1381	Public	Non-Profit	Y	Non-Profit Public Health	Community Health Centers of Southern Iowa - Albia	Li Service	Leased Service	100 Mbps	Yes	Proxider Edge Router - Juniper 2350 or equivalent
Iowa Regional Medical Center**	1795 Hwy E	Anamosa	IA	52205	Jones	7,1	07000	(319) 462-8131	Public	Non-Profit	Y	Non-Profit Hospital	Iowa Regional Medical Center**	Li Service	Leased Service	100 Mbps	Yes	Proxider Edge Router - Juniper 2350 or equivalent
Community Health Centers of Southern Iowa - Centerville	221 E State St	Centerville	IA	52544	Appanoose	7	05030	(641) 446-1381	Public	Non-Profit	Y	Non-Profit Public Health	Community Health Centers of Southern Iowa - Centerville	Li Service	Leased Service	100 Mbps	Yes	Proxider Edge Router - Juniper 2350 or equivalent
River Hills Appanoose County Clinic	1015 N 18th St, Suite A	Centerville	IA	52544	Appanoose	7	05030	(641)603-5771 - ext 303	Public	Non-Profit	Y	Non-Profit Public Health	River Hills Appanoose County Clinic	Li Service	Leased Service	100 Mbps	Yes	Proxider Edge Router - Juniper 2350 or equivalent
Community Health Centers of Southern Iowa - Chariton	125 S Grand	Chariton	IA	50049	Polk	7	06400	(641) 446-1383	Public	Non-Profit	Y	Non-Profit Public Health	Community Health Centers of Southern Iowa - Chariton	Li Service	Leased Service	100 Mbps	Yes	Proxider Edge Router - Juniper 2350 or equivalent
Peoples Community Health Clinic, Inc. - Clarksville	114 S Main	Clarksville	IA	50619	Buena Vista	10,4	97030	(319) 272-4311	Public	Non-Profit	Y	Non-Profit Public Health	Peoples Community Health Clinic, Inc. - Clarksville	Li Service	Leased Service	100 Mbps	Yes	Proxider Edge Router - Juniper 2350 or equivalent
Community Health Centers of Southeastern Iowa, Inc. - Louisa County Clinic	2049 Spring Street	Columbus Junction	IA	52233	Louisa	10,4	09200	(319) 753-2300 ext 100	Public	Non-Profit	Y	Non-Profit Public Health	Community Health Centers of Southeastern Iowa, Inc. - Louisa County Clinic	Li Service	Leased Service	100 Mbps	Yes	Proxider Edge Router - Juniper 2350 or equivalent
Community Health Centers of Southern Iowa - Covington	204 S Franklin	Covington	IA	50560	Buena Vista	7	07020	(641) 446-1383	Public	Non-Profit	Y	Non-Profit Public Health	Community Health Centers of Southern Iowa - Covington	Li Service	Leased Service	100 Mbps	Yes	Proxider Edge Router - Juniper 2350 or equivalent
InComNetCare, Inc. - Davenport (data center)	151 Scott Street	Davenport	IA	52801	Scott	1	01000	(563) 336-3000	Non-Public	Non-Profit	Y	Non-Profit Public Health DC	InComNetCare, Inc. - Davenport (data center)	Li Service	Leased Service	100 Mbps	Yes	Proxider Edge Router - Juniper 2350 or equivalent
East Side Center, Primary Health Care Inc.	3009 S 29th St	Des Moines	IA	50317	Polk	1	00033	(515) 248-1441	Non-Public	Non-Profit	Y	Non-Profit Public Health	East Side Center, Primary Health Care Inc.	Li Service	Leased Service	100 Mbps	Yes	Proxider Edge Router - Juniper 2350 or equivalent
Engelmann Clinic, Primary Health Care Inc.	2325 S 24th St	Des Moines	IA	50304	Polk	4	00900	(515) 248-1441	Non-Public	Non-Profit	Y	Non-Profit Public Health	Engelmann Clinic, Primary Health Care Inc.	Li Service	Leased Service	100 Mbps	Yes	Proxider Edge Router - Juniper 2350 or equivalent
The Outreach Project and Pharmacy, Primary Health Care Inc.	1200 University Ave	Des Moines	IA	50314	Polk	1	00900	(515) 248-1441	Non-Public	Non-Profit	Y	Non-Profit Public Health	The Outreach Project and Pharmacy, Primary Health Care Inc.	Li Service	Leased Service	100 Mbps	Yes	Proxider Edge Router - Juniper 2350 or equivalent
Crescent Community Health Center	1789 Elm St	Dubuque	IA	52001	Dubuque	1	00500	(563) 690-2800	Public	Non-Profit	Y	Non-Profit Public Health	Crescent Community Health Center	Li Service	Leased Service	100 Mbps	Yes	Proxider Edge Router - Juniper 2350 or equivalent
Community Health Centers of Fort Dodge	128 N 10th St	Fort Dodge	IA	50501	Webster	4	00700	(515) 576-6500	Public	Non-Profit	Y	Non-Profit Public Health	Community Health Centers of Fort Dodge	Li Service	Leased Service	100 Mbps	Yes	Proxider Edge Router - Juniper 2350 or equivalent
Community Health Centers of Southeastern Iowa, Inc. - Keokuk Western Iowa	1550 W 7th St	Keokuk	IA	52622	Lee	4	09700	(319) 753-2300 ext 100	Public	Non-Profit	Y	Non-Profit Public Health	Community Health Centers of Southeastern Iowa, Inc. - Keokuk Western Iowa	Li Service	Leased Service	100 Mbps	Yes	Proxider Edge Router - Juniper 2350 or equivalent
Community Health Centers of Southeastern Iowa, Inc. - Women's Health Center	1425 Morgan St	Keokuk	IA	52622	Lee	4	09700	(319) 753-2300 ext 100	Public	Non-Profit	Y	Non-Profit Public Health	Community Health Centers of Southeastern Iowa, Inc. - Women's Health Center	Li Service	Leased Service	100 Mbps	Yes	Proxider Edge Router - Juniper 2350 or equivalent
Community Health Centers of Southern Iowa - Lamoni	802 Academy St	Lamoni	IA	50140	Washington	10	96200	(641) 446-1383	Public	Non-Profit	Y	Non-Profit Public Health	Community Health Centers of Southern Iowa - Lamoni	Li Service	Leased Service	100 Mbps	Yes	Proxider Edge Router - Juniper 2350 or equivalent
Community Health Centers of Southern Iowa - Leon #1	302 NE 14th St	Leon	IA	50144	DeWitt	10,4	96300	(641) 446-1383	Public	Non-Profit	Y	Non-Profit Public Health	Community Health Centers of Southern Iowa - Leon #1	Li Service	Leased Service	100 Mbps	Yes	Proxider Edge Router - Juniper 2350 or equivalent
Marshalltown Dental Clinic - Airmax Health Care Inc.	112 E 5th St	Marshalltown	IA	50154	Marshall	4	09000	(515) 248-1441	Non-Public	Non-Profit	Y	Non-Profit Public Health	Marshalltown Dental Clinic - Airmax Health Care Inc.	Li Service	Leased Service	100 Mbps	Yes	Proxider Edge Router - Juniper 2350 or equivalent
Primary Health Center - Marshalltown - Primary Health Care Inc.	412 E Church St	Marshalltown	IA	50904	Marshall	4	09000	(515) 248-1441	Non-Public	Non-Profit	Y	Non-Profit Public Health	Primary Health Center - Marshalltown - Primary Health Care Inc.	Li Service	Leased Service	100 Mbps	Yes	Proxider Edge Router - Juniper 2350 or equivalent
River Hills Community Health Center	201 South Market St	Ottumwa	IA	52501	Wapello	4	06600	(641) 683-5773 ext. 115	Public	Non-Profit	Y	Non-Profit Public Health	River Hills Community Health Center	Li Service	Leased Service	100 Mbps	Yes	Proxider Edge Router - Juniper 2350 or equivalent
River Hills Pediatric Clinic	911 Pennsylvania Ave	Ottumwa	IA	52501	Wapello	4	06600	(641) 684-3000	Non-Public	Non-Profit	Y	Non-Profit Public Health	River Hills Pediatric Clinic	Li Service	Leased Service	100 Mbps	Yes	Proxider Edge Router - Juniper 2350 or equivalent
Shoemaker Community Health Center	1021 Nebraska St	Sioux City	IA	51109	Woodbury	1	01600	(712) 201-0101	Public	Non-Profit	Y	Non-Profit Public Health	Shoemaker Community Health Center	Li Service	Leased Service	100 Mbps	Yes	Proxider Edge Router - Juniper 2350 or equivalent
United Community Health Center	712 West Milwaukee	Buena Vista	IA	50508	Buena Vista	4	96500	(712) 213-0109	Public	Non-Profit	Y	Non-Profit Public Health	United Community Health Center	Li Service	Leased Service	100 Mbps	Yes	Proxider Edge Router - Juniper 2350 or equivalent
InComNetCare, Inc. - Urbandale (data center)	9943 Hickman Road, Suite 303	Urbandale	IA	50322	Polk	1	01210	(515) 244-4630	Non-Public	Non-Profit	Y	Non-Profit Public Health DC	InComNetCare, Inc. - Urbandale (data center)	Li Service	Leased Service	100 Mbps	Yes	Proxider Edge Router - Juniper 2350 or equivalent
Community Health Centers of Southeastern Iowa, Inc. - Warsaw Clinic	245 Park Street	Warsaw	IA	62279	Howard	5	9540	(319) 753-2300 ext 100	Public	Non-Profit	Y	Non-Profit Public Health	Community Health Centers of Southeastern Iowa, Inc. - Warsaw Clinic	Li Service	Leased Service	100 Mbps	Yes	Proxider Edge Router - Juniper 2350 or equivalent
Peoples Community Health Clinic, Inc. - Waterloo	305 Franklin St	Waterloo	IA	50793	Black Hawk	1	00700	(319) 272-4311	Non-Public	Non-Profit	Y	Non-Profit Public Health	Peoples Community Health Clinic, Inc. - Waterloo	Li Service	Leased Service	100 Mbps	Yes	Proxider Edge Router - Juniper 2350 or equivalent
Community Health Centers of Southeastern Iowa, Inc.	1706 West Agency Road	West Burlington	IA	52655	Des Moines	4	00800	(319) 753-2300 ext 100	Public	Non-Profit	Y	Non-Profit Public Health	Community Health Centers of Southeastern Iowa, Inc.	Li Service	Leased Service	100 Mbps	Yes	Proxider Edge Router - Juniper 2350 or equivalent

**Both HCP's are located at the same physical address.

ATTACHMENT B - HealthNet connect (HnC) Access Connection Specification

Hospital

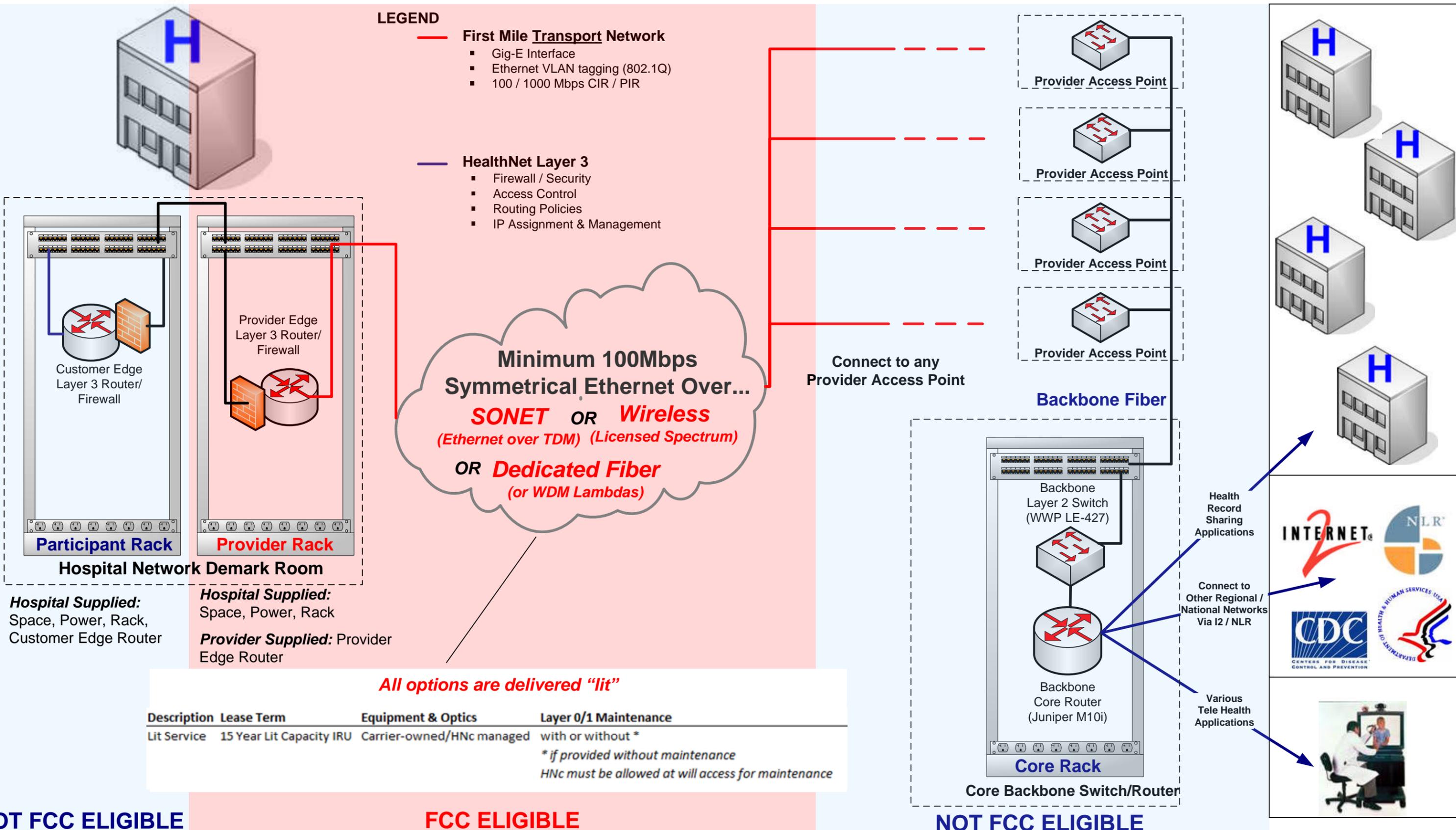
HealthNet connect Access Connection

Core Fiber Backbone Network

LEGEND

- First Mile Transport Network**
 - Gig-E Interface
 - Ethernet VLAN tagging (802.1Q)
 - 100 / 1000 Mbps CIR / PIR

- HealthNet Layer 3**
 - Firewall / Security
 - Access Control
 - Routing Policies
 - IP Assignment & Management



NOT FCC ELIGIBLE

FCC ELIGIBLE

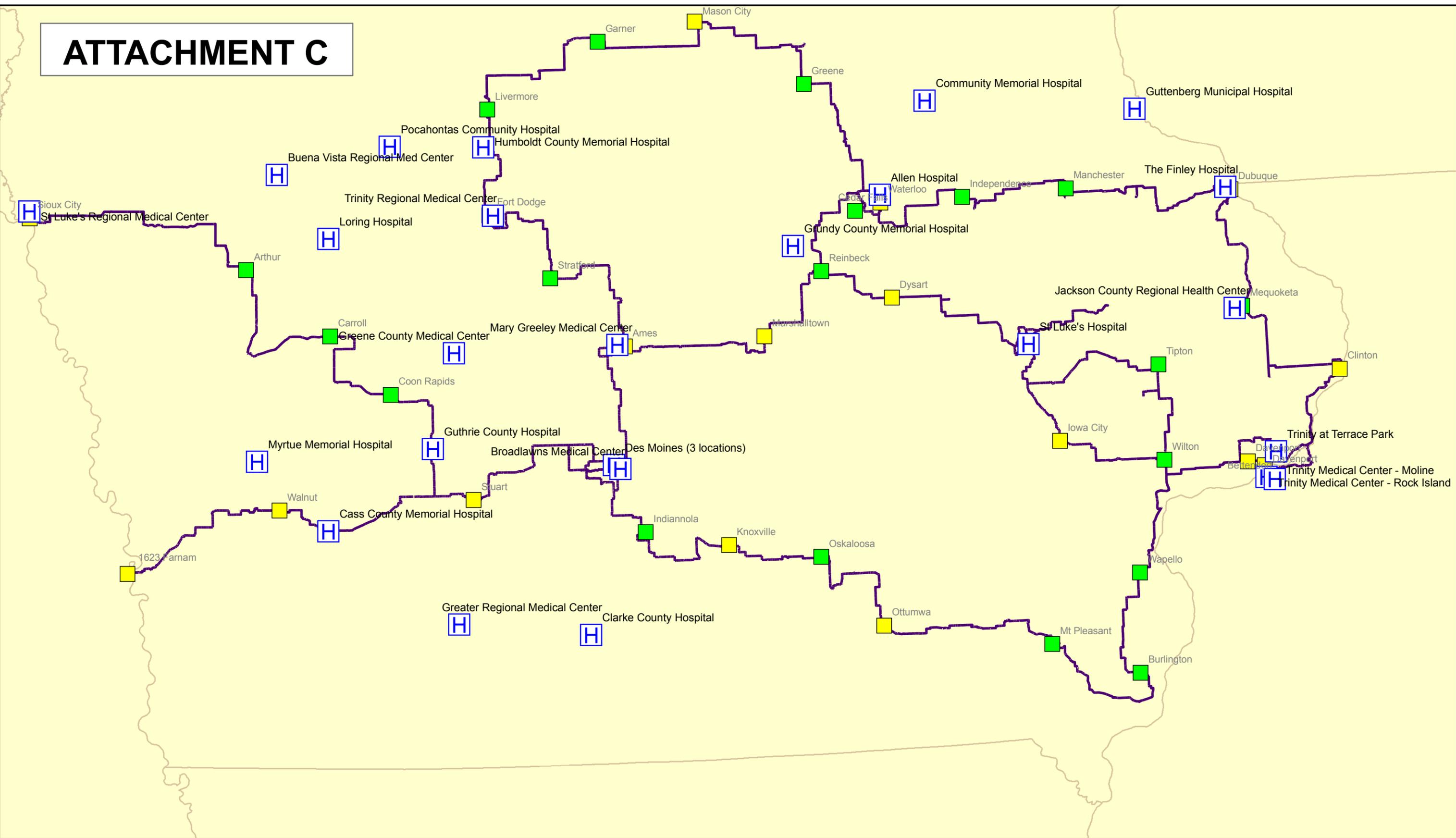
NOT FCC ELIGIBLE

Gerald Horst	HealthNet	Rev #: 4.0
Sales Engineer	First Mile Specifications	08-13-08
Proprietary & Confidential		

222 3rd Ave, SE
Suite 500
Cedar Rapids, IA 52401
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(319) 364-8100 (f)
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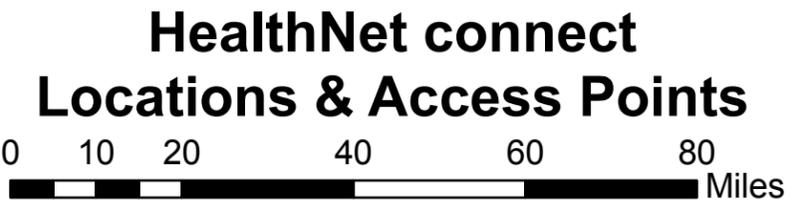


ATTACHMENT C

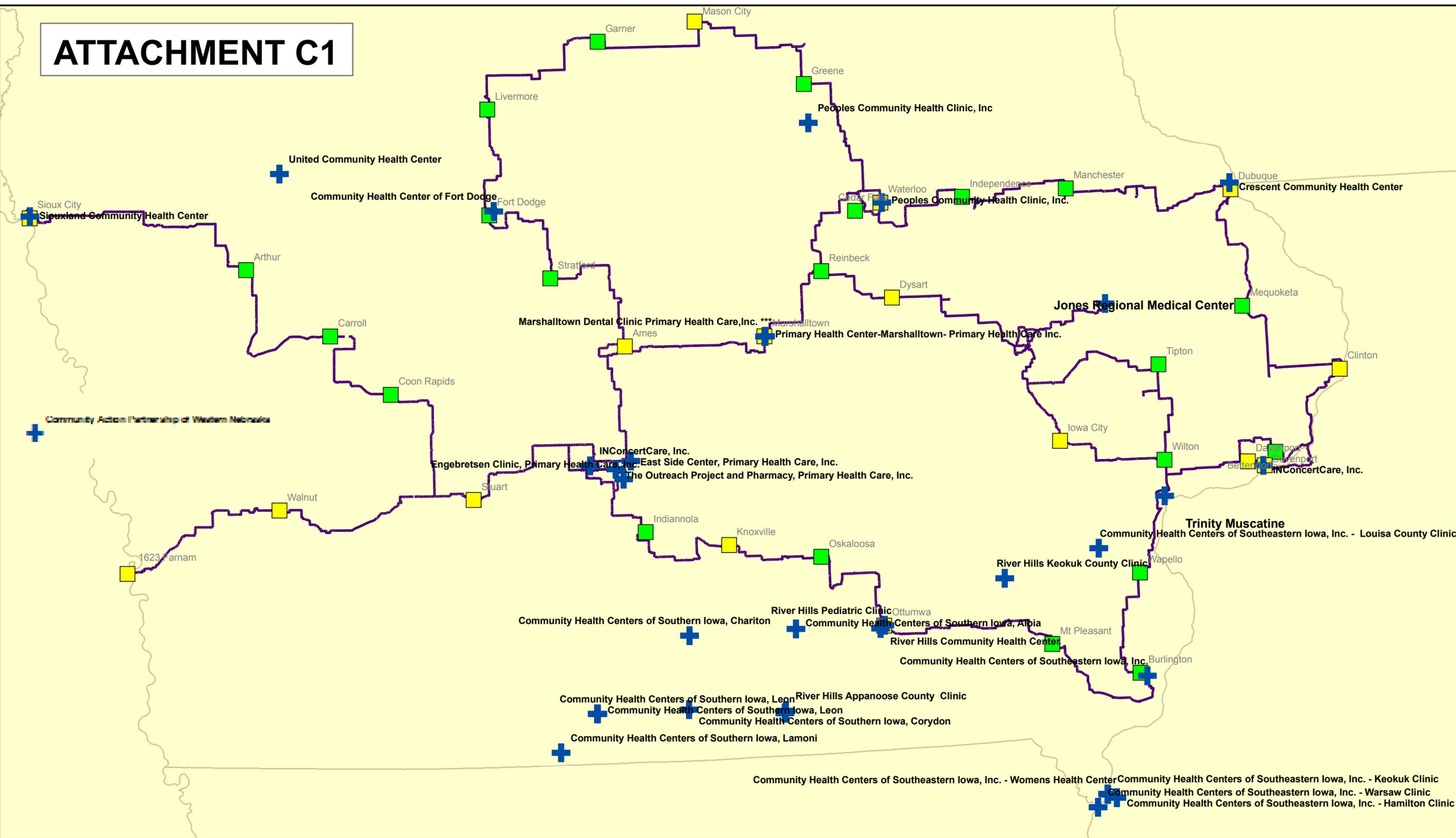


Legend

- H HEALTHNET CONNECT PHASE 1 LOCATIONS
- CORE FIBER ACCESS POINT - CARRIER POP
- CORE FIBER ACCESS POINT - IHS POP



ATTACHMENT C1



Legend

- + HEALTHNET CONNECT PHASE 2 LOCATIONS
- CORE FIBER ACCESS POINT - CARRIER POP
- CORE FIBER ACCESS POINT - IHS POP





Attachment D

Iowa Health System Sustainability Plan

Prepared by:



Fiberutilities Group
Armstrong Centre
Suite 500
222 Third Avenue, SE
Cedar Rapids, IA 52401
(319) 364-3200

Iowa Health System Sustainability Plan

Overview

The application of Iowa Health System (“IHS”) under the FCC’s Rural Healthcare Pilot Program (“RHCPP”) sought funding for the purpose of constructing access connections to the existing core network of IHS (“Access Connections”). As demonstrated by this sustainability plan, IHS anticipates that it will be able to meet the ongoing operation expenses of the Access Connections from revenues generated by eligible and ineligible users. In fact, IHS expects that the Access Connections will be fully funded and self-sustaining by the fifth year of operation and will remain self-sustaining, including generating sufficient revenues to cover capital costs on an ongoing basis.¹

This Plan shows nominal losses for the Access Connections in the first three years, then positive cash flow for the remainder of the 20 year projection,² including generating sufficient cash to cover electronics replacement for eligible users.³ IHS anticipates sponsoring capital, operational and maintenance costs as well as any cash flow shortfalls.⁴

IHS is Iowa’s first and largest integrated health-care system, serving nearly one of every three patients in Iowa. IHS has hospitals in 14 rural communities and group practices of physicians and clinics in 71 communities. It also has a workforce of nearly 20,000 employees and annual revenues of almost \$2 billion. The core network of IHS which is operational today is a 2,170 route mile, fiber optic-based network used for IHS’ internal traffic as well as data transmissions between and among IHS’ facilities located in seven large Iowa communities plus Rock Island and Moline, Illinois.

In short, IHS has the managerial, technical and financial wherewithal to operate and maintain not only its core network but the Access Connections to that network on a sustainable basis.

Plan Assumptions

The plan reflects the costs to build, maintain, and operate the Access Connections to the IHS core network. IHS estimates that its direct administrative cost of supporting users is

¹ Future capital costs are limited to equipment replacement as the equipment obsolesces.

² IHS used a 20 year projection because it replicates the life of dark fiber IRUs and is within the range of reasonableness for projecting revenues, expenses and cash flow.

³ Exhibit A shows a few years of negative cash flow (2010 through 2011 and 2014 through 2021) but the amounts are small (\$335,905 or 3% of the total project costs).

⁴ The RHCPP Application of IHS shows additional capital costs of approximately \$2.7 million whereas Exhibit A shows those costs as approximately \$2.5 million. The analysis for the Application was done in 2007 whereas Exhibit A was completed in late 2008. During that period of time, IHS had the benefit of reviewing the RFPs of interested providers, the project changed from a complete build to a phased build and the Application is based on dark fiber which is no longer available.

\$82 per user, per month. This amount includes governance, overhead and other miscellaneous support required for users.

The plan tests the financial assumptions for sustainability of the IHS project. The basic approach is to determine whether it will generate sufficient revenues to cover operating costs and provide the funds necessary to periodically refresh electronics. The RHCPP funds (85%) and the funds anticipated to be contributed by IHS (15%) are considered sunk costs.⁵

The plan assumes that it will be supported by both eligible users (not-for-profit hospitals and healthcare providers) and ineligible Users (for-profit healthcare and healthcare-related providers).

1) Eligible Users

The plan limits the total eligible users to 78, as specified in the original FCC application. Eligible users have demonstrated their commitment to the RHCPP by entering into Letters of Agency so that IHS may represent them before USAC. They will also sign the Operating Agreement to become members of HealthNet connect, which will administer the Access Connections on behalf of IHS.

Consistent with that outlined in the RHCPP application of IHS, the plan is based on the goal of insuring that eligible users can participate in basic network applications for a nominal cost. With this in mind, a “basic package” was established at the nominal rate of \$120 per month per eligible user and increases (at an annual rate equivalent to the CPI) to \$187 by the 15th year and \$210 by the 20th year.⁶ For \$120 per month, eligible health care providers will enjoy full usage of healthcare data and applications and Internet2/NLR connectivity over a 100 Mbs connection. This type of connectivity would normally cost between \$2500 and \$3000 per month if purchased directly from the commercial marketplace.

The charge of \$120 per month is not exact nor is it based on an in-depth study of demand. Instead, it takes into consideration the financial resources of rural hospitals that are the target market for the package, the costs of the Access Connections and what appears reasonable under the circumstances. If it turns out that the charge is too high or too low, IHS will need to reconsider it, but in the context of affordability.

⁵ The 15% contribution for the first phase of the project (28 eligible users) will be funded by IHS from internal sources. It is anticipated that the 15% contribution for succeeding phases will also be funded by IHS from internal sources. It should also be noted that Exhibit 3 of the IHS RHCPP Application before the FCC showed that IHS will fund approximately 39% of the total cost of the project (\$4,994,658 of \$12,797,390), which included not only the Access Connections but also the associated backbone and metro costs. The costs of the Access Connections, however, is approximately \$9.2 million, 85% of which, or approximately \$7.8 million, will be funded with RHCPP funds and 15% of which, or approximately \$1.38 million, will be funded by IHS.

⁶ In this instance, the word “nominal” means the estimated, direct costs of governance of the eligible group of users.

Eligible users needing such connections are currently limited to buying various services, such as DSL or T-1's. The typical charge for these connections in rural areas is different than the charge for 100 Mbs connections quoted above and range from \$250 to \$1500 per month. However, the bandwidth of a DSL or T-1 of 1.5 Mbs is relatively narrow in comparison to 100Mbs. As such, it barely supports critical health care functions (*e.g.*, internet, radiology, back office business functions *etc.*). It is reasonable to assume therefore, that eligible healthcare providers will redirect some, if not, all of the dollars otherwise spent on various telecom services to the IHS care network by purchasing the basic package.

The plan generates sufficient revenues to replace eligible user electronics every five years. Electronics have an assumed five-year useful life, with a \$10,000 per user replacement cost, plus spares, setup, installation, warranty and contingency amounts.

2) Ineligible Users

Ineligible users will not be using any portion of the Access Connections funded under the RHCPP. Ineligible users will be required to pay the full cost of connecting to the network and upgrading their electronics.⁷ Once connected, however, they receive the same benefits received by eligible users but at a higher rate of \$250 per month increasing (at an annual rate equivalent to the CPI) to \$389 by the 15th year and \$438 by the 20th year.

Similar to eligible users, it is expected that ineligible users will be able to reduce or eliminate some existing costs by converting existing traffic and routing future traffic over the IHS core network.

This plan reflects the offsetting basic user fees generated by an assumed number of ineligible participants over a 20-year period. This plan estimates the number of ineligible users at 30 in the first year, growing to 74 over the 20 years of the project

Following are additional assumptions underlying the plan:

1) General

- A projected start year of 2009
- Only 6 months of revenue in the first year of operation

⁷ Since the charges paid by eligible users will be nominal (see *supra*, note 6), the charges paid by ineligible users will not only cover the full cost of connecting to the network and upgrading their electronics but it will also include a subsidy of the costs incurred by eligible users. In other words, the costs allocated to ineligible users is determined by calculating the total costs of the project and then subtracting the nominal costs attributable to eligible users.

- Upgrade in edge routers of \$290,000, \$290,000, and \$200,000 in 2014, 2015, and 2016, respectively and again in 2019, 2020, and 2021 as well as 2024, 2025, and 2026
- An annual CPI adjustment of 3%

2) Capital Costs

- Depreciation rates based on standard GAAP/IRS useful lives.
- A capital expenditure contingency of 5% of the total non-fiber capital expenses
- The capital refresh cost is set equal to the initial cost for the same asset. The assumption is that the same dollars will buy then-current capabilities in the electronics. The basis for this assumption is that the price-performance curve for digital technology has been improving for decades. The approach for this Plan, therefore, assumes that the price in dollars for a particular piece of electronics will be the same in 10 years as it is now, but the capabilities will have improved substantially.
- The source of funds for future capital requirements is the net income generated from the operation of the network, primarily ineligible users. Exhibit A shows that sufficient net revenues will be generated to fund replacement electronics.

3) Operating Costs

- Per edge router (*e.g.*, 1 per user) of \$100 per month plus nominal annual charges for licensing, right-of-way, software and miscellaneous costs.

4) Planning (direct G&A)

- Direct general and administrative expense (governance, overhead and other miscellaneous support) of \$82 per customer.

5) Pricing (*see* descriptions above of Eligible Users and Ineligible Users)

6) Take Rates

- Eligible users top out at 78, which is the amount of users set forth in the IHS RHCPP application

- Eligible users increase over time based on the phased build of the RHCPP funded Access Connections to the IHS core network, *e.g.*, design, RFP, approval, construction, turn up.
- Ineligible users ramp up fairly quickly in the first six years. After six years, the ramp up assumption is conservatively set at one ineligible user per year (the actual market of users is limited by geography and cost)

Exhibit A

Summary by Year

FINANCIAL SUMMARY

Date: December 16, 2008

BY: Fiberilities Group, LLC

Location: Multi-state

Product/Project Title: Iowa Health System (IHS)

Project Description: This plan tests the financial assumptions for sustainability of the IHS Project. The basic approach is to prove sufficient revenues to cover operating costs and provide funds for periodic electronics refresh. The original grant funds and the matching IHS funds are considered sunk costs; this model only considers what is required to sustain operations.

Financial Summary (20 YEAR TOTAL):

Revenues	\$ 8,315,854
Net Income	\$ 137,578
Cash Flow	\$ 2,119,378
Capital Expenditures	\$ 2,457,000

SUMMARY BY YEAR	Average % of Revenue																				20 YEAR	
		2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	TOTAL
Operating Revenues	100.00%	\$ 65,880	\$ 225,076	\$ 278,295	\$ 303,035	\$ 329,009	\$ 356,268	\$ 370,538	\$ 385,344	\$ 400,705	\$ 416,640	\$ 433,171	\$ 450,319	\$ 468,106	\$ 486,555	\$ 505,689	\$ 525,534	\$ 546,114	\$ 567,456	\$ 589,587	\$ 612,535	\$ 8,315,854
Non Recurring Revenue	0.00%	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
TOTAL REVENUE	100.00%	\$ 65,880	\$ 225,076	\$ 278,295	\$ 303,035	\$ 329,009	\$ 356,268	\$ 370,538	\$ 385,344	\$ 400,705	\$ 416,640	\$ 433,171	\$ 450,319	\$ 468,106	\$ 486,555	\$ 505,689	\$ 525,534	\$ 546,114	\$ 567,456	\$ 589,587	\$ 612,535	\$ 8,315,854
Internet2/NLR access	0.00%	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
GROSS MARGIN	100.00%	\$ 65,880	\$ 225,076	\$ 278,295	\$ 303,035	\$ 329,009	\$ 356,268	\$ 370,538	\$ 385,344	\$ 400,705	\$ 416,640	\$ 433,171	\$ 450,319	\$ 468,106	\$ 486,555	\$ 505,689	\$ 525,534	\$ 546,114	\$ 567,456	\$ 589,587	\$ 612,535	\$ 8,315,854
Network Operations & Maint	0.08%	\$ 210	\$ 213	\$ 217	\$ 223	\$ 230	\$ 237	\$ 244	\$ 251	\$ 259	\$ 267	\$ 275	\$ 283	\$ 291	\$ 300	\$ 309	\$ 318	\$ 328	\$ 338	\$ 348	\$ 358	\$ 5,497
Sales & Marketing	0.00%	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Customer Service	0.00%	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
General & Administrative	94.95%	\$ 64,428	\$ 226,188	\$ 281,088	\$ 292,068	\$ 303,048	\$ 314,028	\$ 316,224	\$ 318,420	\$ 320,616	\$ 322,812	\$ 325,008	\$ 327,204	\$ 329,400	\$ 331,596	\$ 333,792	\$ 335,988	\$ 338,184	\$ 340,380	\$ 342,576	\$ 344,772	\$ 6,107,820
Depreciation and Amortization	3.50%	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 52,200	\$ 104,400	\$ 140,400	\$ 140,400	\$ 140,400	\$ 140,400	\$ 140,400	\$ 140,400	\$ 140,400	\$ 140,400	\$ 140,400	\$ 140,400	\$ 140,400	\$ 140,400	\$ 140,400	\$ 1,981,800
Bad Debts	1.00%	\$ 659	\$ 2,251	\$ 2,783	\$ 3,030	\$ 3,290	\$ 3,563	\$ 3,705	\$ 3,853	\$ 4,007	\$ 4,166	\$ 4,332	\$ 4,503	\$ 4,681	\$ 4,866	\$ 5,057	\$ 5,255	\$ 5,461	\$ 5,675	\$ 5,896	\$ 6,125	\$ 83,159
TOTAL OP EXPENSES	99.53%	\$ 65,297	\$ 228,652	\$ 284,088	\$ 295,322	\$ 306,568	\$ 370,027	\$ 424,573	\$ 462,925	\$ 465,282	\$ 467,645	\$ 470,014	\$ 472,390	\$ 474,772	\$ 477,162	\$ 479,558	\$ 481,962	\$ 484,373	\$ 486,792	\$ 489,220	\$ 491,656	\$ 8,178,276
Interest Exp (cost of capital)	0.00%	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
TOTAL EXPENSE	99.53%	\$ 65,297	\$ 228,652	\$ 284,088	\$ 295,322	\$ 306,568	\$ 370,027	\$ 424,573	\$ 462,925	\$ 465,282	\$ 467,645	\$ 470,014	\$ 472,390	\$ 474,772	\$ 477,162	\$ 479,558	\$ 481,962	\$ 484,373	\$ 486,792	\$ 489,220	\$ 491,656	\$ 8,178,276
Interest Income	0.00%	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Net Income et Income		\$ 583	\$ (3,576)	\$ (5,792)	\$ 7,714	\$ 22,441	\$ (13,759)	\$ (54,035)	\$ (77,581)	\$ (64,577)	\$ (51,005)	\$ (36,843)	\$ (22,071)	\$ (6,666)	\$ 9,393	\$ 26,131	\$ 43,572	\$ 61,741	\$ 80,663	\$ 100,367	\$ 120,879	\$ 137,578
Cash Flow		\$ 583	\$ (3,576)	\$ (5,792)	\$ 7,714	\$ 22,441	\$ 38,441	\$ 50,365	\$ 62,819	\$ 75,823	\$ 89,395	\$ 103,557	\$ 118,329	\$ 133,734	\$ 149,793	\$ 166,531	\$ 183,972	\$ 202,141	\$ 221,063	\$ 240,767	\$ 261,279	\$ 2,119,378
EBITDA percent of gross		0.89%	-1.59%	-2.08%	2.55%	6.82%	10.79%	13.59%	16.30%	18.92%	21.46%	23.91%	26.28%	28.57%	30.79%	32.93%	35.01%	37.01%	38.96%	40.84%	42.66%	25.49%
Fixed Asset Additions (GL Additions)		\$ -	\$ -	\$ -	\$ -	\$ -	\$ 304,500	\$ 304,500	\$ 210,000	\$ -	\$ -	\$ 304,500	\$ 304,500	\$ 210,000	\$ -	\$ -	\$ 304,500	\$ 304,500	\$ 210,000	\$ -	\$ -	\$ 2,457,000
Capital Expenditures (Cash for Assets)		\$ -	\$ -	\$ -	\$ -	\$ -	\$ 304,500	\$ 304,500	\$ 210,000	\$ -	\$ -	\$ 304,500	\$ 304,500	\$ 210,000	\$ -	\$ -	\$ 304,500	\$ 304,500	\$ 210,000	\$ -	\$ -	\$ 2,457,000
Cumulative Capital Expenditures		\$ -	\$ -	\$ -	\$ -	\$ -	\$ 304,500	\$ 609,000	\$ 819,000	\$ 819,000	\$ 819,000	\$ 1,123,500	\$ 1,428,000	\$ 1,638,000	\$ 1,638,000	\$ 1,638,000	\$ 1,942,500	\$ 2,247,000	\$ 2,457,000	\$ 2,457,000	\$ 2,457,000	\$ 2,457,000

Exhibit B

Access Connection Revenues versus Expenses and Cash Flow

