

REQUEST FOR PROPOSAL

RFP HCF-03

IRHTP Bid Contact:
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Iowa Rural Health Telecommunications Program
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Des Moines, IA 50309
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The Iowa Rural Health Telecommunications Program (IRHTP) will be receiving sealed bid proposals for HCF-03 until 3:00 p.m. CST, **on the 28th day after the posting of the RFP.**



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INTRODUCTION

Iowa Rural Health Telecommunications Program (“IRHTP” or “Applicant”) is a non-profit established for the purpose of administering, operating, expanding and maintaining a dedicated broadband health care network for the purpose of health care delivery. The IRHTP network is designed to provide access to healthcare services in rural communities with shortages of physicians and other health care providers. These services include, but are not limited to the provision of telemedicine services; the transmission of radiology files; and the transmission of electronic medical records. The IRHTP was an original Rural Health Care Pilot Program awardee. The IRHTP used the funding to develop the infrastructure that has been utilized by IRHTP members for broadband connectivity to provide health care to residents of member HCPs communities throughout Iowa, Nebraska and South Dakota.

The IRHTP is now seeking bid proposals for Core Equipment and premise equipment at various locations. All participating members of the IRHTP must be able to seamlessly exchange data with each other through the broadband network. IRHTP reserves the right to not award a bid for all or any portion of the RFP. Should no bids be most cost effective, IRHTP reserves the right to re-bid specific items or the entire project. All bid response information is considered confidential and will not be shared with other bidders.

All vendors are also hereby notified that that the pricing provided in Attachment B should **not be dependent upon** IRHTP ordering **all equipment** listed on Attachment A simultaneously, although it is highly likely that all equipment will be purchased within FY2017. IRHTP and its members may ultimately choose not to order particular equipment due to business need changes and/or the cost of the equipment itself. Pricing listed on Attachment B **must not be subject** to IRHTP ordering all equipment simultaneously. Vendors are hereby put on notice that the equipment may be purchased in waves over the life of the three-year contract.

FAIR AND OPEN COMPETITIVE BID PROCESS

IRHTP is committed to complying with the FCC requirement that the competitive bidding process must be “fair and open” (see, Healthcare Connect Fund Order, ¶ 229-233 and 47 C.F.R. § 54.603 and § 54.642). This means that vendors have to be treated equally and all vendors must have access to the same information.

It is imperative that the vendors who wish to bid comply with the communication requirements outlined in the RFP. IRHTP will **only accept written questions** (see “Submission of Questions/Request for Clarification” for more information). IRHTP **will not verbally answer questions** and will not accept questions in any form other than those outlined within this RFP. IRHTP will not hold a conference call with a single, or only some, of the vendors who have submitted a Notice of Intent to Bid.

RFP AMENDMENTS

In the event it becomes necessary for IRHTP to amend, add to or delete any part of this RFP, the amendment will be posted on the USAC website, as required. All vendors that submit a Notice of Intent will also receive an email with the updated version of the RFP attached.

TECHNOLOGY NEUTRAL

IRHTP understands that the competitive bidding process must be “technology neutral” in order to comply with the Federal Communication Commission competitive bidding rules (see 47 C.F.R. § 54.603 and § 54.642). Nothing in this RFP is intended to undermine the competitive bidding requirements. Any technology specific information in this RFP is meant to be **guidance only**. Any vendor, regardless of the technology that the vendor uses to provide service, is welcome to submit a bid for this RFP. If the vendor cannot provide the specific technology requested (example: QoS) the vendor should respond with detailed information on exactly what **equivalent** service the vendor can provide.

NOTICE OF INTENT TO BID

A letter signifying the vendor's intent to bid on this project must be received via e-mail no later than 14 days after the RFP is posted to initiate the competitive bidding period. Letter of intent emails should be sent to wattersc@ihaonline.org with a cc to crogers@telehealthfundingconnection.com and must contain the following information:

1. Company Name
2. Address of Company
3. Company's authorized representative Information:
 - a. Name
 - b. Title
 - c. Address
 - d. Phone number
 - e. Email address

In addition, please ensure that the **Subject Line of the email states "Rural Healthcare Connect Fund Letter of Intent to Bid – HCP 17226 RFP03"**. Only bidders submitting such notice will receive listing of any submitted Questions and IRHTP's response to the same. See "Submission of Questions/Request for Clarification" section for more information.

Upon receipt of the "Notice of Intent to Bid" email, IRHTP or its agent will provide electronic versions of all Attachments to the RFP (excel or PDF, based on format). **Please note, Attachment B MUST be provided in Excel format.**

SUBMISSION OF QUESTIONS/REQUEST FOR CLARIFICATION

Questions or request for clarification concerning this RFP should be submitted to wattersc@ihaonline.org with a cc to crogers@telehealthfundingconnection.com and/or request for clarification concerning this RFP within 14 days of the posting of this RFP to USAC's website. IRHTP will respond 21 days after the posting of this RFP on USAC's website. All vendors that submit a "Letter of Intent to Bid" will receive a listing of all questions and/or request for clarification that have been submitted and IRHTP's written response to the same.

All communication concerning this RFP **must be in writing**. Phone calls are not encouraged and Vendors will be asked to communicate solely by email. Only those questions/requests for clarification submitted by the deadline will be answered. All Vendors that submit a "Notice of Intent to Bid" will receive a PDF of all questions as the questions are answered every Wednesday. IRHTP will also request that USAC post the PDF of the Questions and Answers on the USAC website.

NOTIFICATIONS TO VENDORS

IRHTP would like to provide all vendors with the following notifications:

- The IRHTP assumes no responsibility for verbal representations made by its consortium members and representatives unless such representations are confirmed in writing by the IRHTP and incorporated into this RFP.
- All communication concerning this RFP shall be in accordance with the "Submission of Questions/Request for Clarification" section of this RFP. All questions shall be submitted through this process.
- In the event it becomes necessary for IRHTP to amend, add, or delete any part of this RFP, the amendment will be posted on the USAC website. Notice of the modification will be emailed to all vendors that submitted a Notice of Intent to Bid. It is expected that a Vendor's bid proposal will incorporate any changes/additions/deletions made to the RFP and will be evaluated based on this understanding.

- Failure to comply with or supply any and all information requested to accompany the bid proposal will result in low evaluation scores, where appropriate.
- All bid proposals shall be firm for a period of 90 days to allow the evaluation committee to fully evaluate all proposals and make an award deemed to be most cost effective.
- By submitting a bid proposal the Vendor agrees to the terms and conditions contained within this RFP.
- IRTHP reserves the right to contact a Vendor after submission of bid proposals for the purpose of clarifying a bid proposal to ensure mutual understanding. This contact may include written questions, interviews, site visits, a review of past performance. This information may be used to evaluate the Vendor's proposal.
- IRHTP reserves the right to obtain information concerning any Vendor or any proposal from any source and to consider such information in evaluating the Vendor's bid proposal.
- Free services, gifts or other items of value will not be accepted by any member of IRHTP. IRHTP officers, directors or employees are prohibited from accepting any free services, gifts or other items of value.

INTENTION TO SEEK COMPETITIVE BIDS

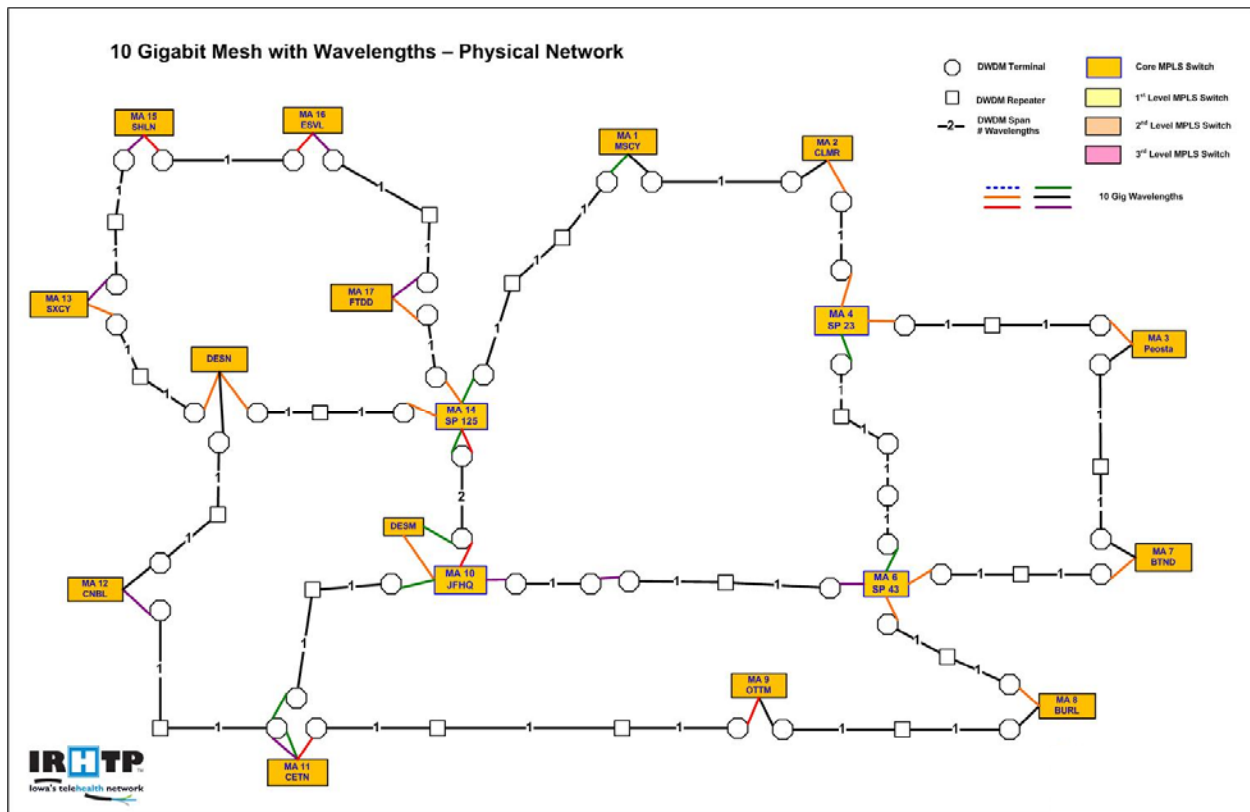
This request for proposal seeks bids as outlined in Attachment B for the required equipment necessary to make the circuits for the HCPs listed in Attachment A functional. The services requested will provide certain equipment for the IRHTP network as specified in these Attachments and meet the requirements outlined in this RFP. Bidders are free to propose whatever equipment that they feel best meets the needs of the consortium. The equipment bid should be equivalent to the equipment requested. The successful bidder(s) will support equipment at the original sites and clinics to provide a seamless transition.

Vendor shall provide network services in a manner that meets HIPAA requirements concerning telecommunications.

NETWORK CONFIGURATION

The current network configuration can be generally described as link to backbone. Substantial investment was made through the Rural Health Care Pilot Program to install dark fiber where necessary to create a physical fiber link from the healthcare provider to the fiber ring. Through the Pilot Program, funding links were created from the hospital to a 23-middle-mile-segment backbone connecting 19 MPLS core network switch locations with 10 Gbps uplink. Existing IRHTP network is a combination of Layer 2/3 carrier Ethernet transport and IP/MPLS switches, and Layer 3 logical IP service core routers. Figure 1 is a pictorial depiction of the network:

Figure One: Existing Network Diagram (high-level)



Vendors wishing to bid on this RFP are reminded that the IRHTP was an original Pilot Project awardee.¹ The Federal Communication Commission (FCC) and the Universal Service Administrative Company (USAC) have certain rules and regulations pertaining to the funds that were disbursed, and the ongoing use of the assets purchased using those funds. IRHTP used the funds to create a fiber and equipment infrastructure for a statewide, high speed, broadband network that would benefit healthcare providers in Iowa and surrounding states.

TECHNICAL SUPPORT

Vendor must provide details of all maintenance activities and how assistance will be provided to consortium users. The data shall include, but not be limited to:

1. How 24/7 maintenance will be provided. The response times for major and minor problems. Vendor shall provide the definition of what is a "minor" and a "major" problem.
2. How the service will be monitored on a continuous basis for any problems and what proactive steps will be taken to ensure the Quality of Service.
3. How reports will be made available to the consortium management online via the public Internet or through the newly created private Intranet.

¹ In the Matter of the Rural Health Care Support Mechanism, WC Docket 02-60, Order, FCC 07-198, 22 FCC Rcd 20360 (2007) (Pilot Program Selection Order).

4. Description of what software will be used to generate reports containing the following minimum information:
 - a. Circuit bandwidth utilization (private Intranet and public Internet)
 - b. Peak bandwidth analysis (private Intranet and public Internet)
 - c. Circuit up-time (private Intranet and public Internet)
 - d. Circuit down-time (private Intranet and public Internet)

TERM OF AGREEMENT, PRICING AND COST INFORMATION

Services requested through this RFP are being bid for 36 months. Services requested in this RFP are expected to be purchased in FY2017. But, the contract entered into through this RFP must be a multi-year contract so that IRHTP and its members can purchase **any equipment or software necessary** for the broadband network and healthcare providers to provide the necessary healthcare services that they provide to their patients. This includes any new locations opened by the stakeholders or any new stakeholder that join IRHTP during the life of the contract. Vendors should also provide for one three-year optional renewal and one two-year optional renewal, for a total optional extension period of five years in the aggregate. *Please take note:* The contract term should be at the “consortium level”. To be specific, the contract term is static. IRHTP will not enter into a contract where the term is not static – meaning when equipment is purchased, a new term begins. Vendors that propose a term that is at the “equipment level” will be evaluated accordingly.

Vendors **must complete** the grid shown in Attachment B and **must submit** the same in **EXCEL format**. Vendors must insert additional columns for line-item level cost associated with providing the service requested. The bidder with the lowest cost will receive the highest score for the cost evaluation for the specified criteria.

Vendors submitting proposals should identify all costs associated with the solution quoted. All hardware **MUST BE** new and not refurbished equipment. Quotes should include the following:

- Purchase price, including the price to lease and/or own
- Installation and/or engineering costs
- Maintenance costs, including any subscriptions or other expenses. Maintenance costs should align with the life of the hardware/software.
- Shipping charges
- Ongoing support costs and support hour limits that may add cost to the proposed solution
- Tax/surcharges that will apply. For percentage based, provide the existing percentage. For flat-rate taxes/surcharges, provide the existing flat rate.
- Any other costs associated with the solution and/or description of requirements that are pre-requisites for the solution that may add additional costs to IRHTP.

Bid proposals should identify all costs that are included in the bid in sufficient detail as to confirm the proposed solution, including installation, configuration, maintenance, and any recurring costs, and that the solution complies with Healthcare Connect Fund’s eligibility requirements. **Bundled pricing may be cited, but individual components must be identified and detailed pricing provided.** Shipping cost for each piece of hardware shall be included as well.

All sub-contracting shall be pre-approved by the consortium. The prime contractor/vendor shall be responsible for all subcontractor’s work and payment. The consortium will not pay any subcontractor or third parties directly. Proof of release of liens of subcontractors will need to be submitted prior to invoice approval.

All vendors are hereby provided notice that the consortium **is not financially responsible** for line-item (i.e. unbundled) charges that are deemed ineligible if those line-item expenses are not disclosed in the vendor’s

bid to this RFP. Any and all ineligible expenses that are not disclosed in the vendor's response to this RFP are the sole responsibility of the vendor.

PERSONNEL QUALIFICATIONS INCLUDING TECHNICAL EXCELLENCE

Bidders shall provide documentation to support qualification of personnel and technical excellence of staff who will be assigned to the project. Personnel qualifications, professional designations and certifications, experience with overall installation, integration and maintenance capabilities based upon performance record and availability of sufficient high quality vendor personnel with the required skills and experience for the specific approach.

PRIOR EXPERIENCE, INCLUDING PAST PERFORMANCE

Bidders shall provide documentation to support their experience in providing this type of service by providing:

1. A description of the qualifications, experience, capability and/or capacity of the vendor to successfully provide the broadband solution recommended by the vendor in a complete and timely manner.
2. List of client references and/or citations from prior projects where equal services have been provided for projects of similar size and scope.

IMPLEMENTATION TIMELINE

Vendors responding must include a timeline indicating how quickly the equipment and services being requested can be provided once a Service Order/Purchase Order is signed. Vendors are NOT requested to install the equipment being purchased – the IRHTP and its broadband partner, the Iowa Communications Network, will install the equipment themselves. Please identify any issues that would prevent the Vendor from being able to provide the requested equipment within two weeks of the submission of a Service Order/Purchase Order.

CONTRACT REQUIREMENTS

Vendors are hereby notified that their proposal must include a statement that it understands that the contract entered into as a result of an accepted bid proposal must comply with the FCC rules pertaining to Evergreen contracts. The contract must comply with the following requirements:

1. The contract will be signed by IRHTP on behalf of the entire consortium. All consortium members that can purchase from the contract must be identified within the contract itself;
2. The contract must specify the service(s) provided by location, including the type of service, the bandwidth speed (upload and download) and the quantity;
3. The contract must specify the term. The contract will have one term of service. Terms will not be based at the individual HCP or service level. In addition, the contract must end concurrent with the funding year, on June 30th; and,
4. The contract must specify the cost for the service provided.

SITE AND SERVICE SUBSTITUTION (contract modification)

IRHTP hereby provides notice to all interested vendors that it intends to utilize the Site and Service Substitution policy, if needed, during the life of the contract which results from this competitive bid. All vendors are also hereby provided notice that IRHTP may add new HCPs to its network during the life of the

contract, existing sites may move and that the contract(s) entered into as a result of this RFP will allow for said site/service substitutions. All vendors are also hereby made aware that IRHTP may need to modify its broadband needs during the life of the contract and that the contract(s) entered into as a result of this RFP will allow for any equipment or service purchases that are required for the provision of healthcare for existing HCPs or any new HCP that may join IRHTP during the life of the contract. All vendors are also hereby provided notice that the IRHTP may need to upgrade or downgrade equipment for existing HCPs, or purchase new equipment for new locations during the life of the contract.

Vendors are hereby notified that any new equipment or other services provided must be coterminous to the original contract that is entered into as a result of this RFP.

INVOICING FOR SERVICES RECEIVED/DELIVERED

Vendors are hereby given notice that their invoicing practices must align with the expectations of IRHTP and the Universal Service Administrative Company and the Federal Communication Commission. For services which will be funded through the federal Healthcare Connect Fund, the service provider will need to be in compliance with the rules pertaining to invoicing the program administrator, USAC.

IRHTP also has certain invoicing requirements related to how it administratively manages the services provided to consortium members, which are a result of both administrative efficiencies and federal program requirements.

As a result, IRHTP has developed an invoicing methodology with which each Vendor providing it services must comply. **When submitting bid proposals, the vendor must acknowledge that it is aware of and accepts the following invoicing requirements:**

1. All services/goods provided will be invoiced directly to Iowa Rural Health Telecommunications Program. All invoices must be sent to:

Mailing Address:
Iowa Rural Health Telecommunications Program
ATTN: Mr. Chad Watters
IRHTP Project Coordinator
100 East Grand Ave., Suite 100
Des Moines, IA 50309

All invoices must also be sent via email to wattersc@ihaonline.org.

2. Invoices must delineate the charges by HCP location and service. Invoices must include the HCP number assigned by USAC for all charges associated with services provided at the physical location of that HCP number. Compliance with this requirement will allow for greater administrative ease for all parties involved in the invoicing process and will allow for faster processing of invoices.
3. Once the Vendor invoice is received by IRHTP, IRHTP will send the vendor a remittance in the amount of the non-discounted portion of the invoice (which shall be no less than 35% of the total invoice amount).
4. When IRHTP remits payment of the non-discounted portion to the vendor, IRHTP will simultaneously complete the FCC Form 463 seeking disbursement of the discounted portion of the vendor invoice. IRHTP will endeavor to complete the FCC Form 463 as soon as possible after receipt of the vendor invoice.
5. Upon notification from USAC that the FCC Form 463 has been submitted by IRHTP, the vendor shall review the submitted form within five (5) business days. If there are any errors on the Form 463, the vendor shall reject the invoice and provide notice to IRHTP as to the errors that it

believes are contained on the form. Providing notice to IRHTP as to the errors will assist in allowing IRHTP to correct the errors or to open a dialogue between the vendor and IRHTP as to the suspected inaccuracies on the form. Once the form is correct and can be certified, the vendor shall certify as to the accuracy of the invoice in the online My Portal system.

COMPLIANCE WITH FCC HEALTHCARE CONNECT FUND RULES AND REGULATIONS

In order to obtain funding for the services and equipment requested through this RFP, the consortium is subject to rules and regulations of the FCC Healthcare Connect Fund program. Vendors must meet all program requirements.

All vendors must understand and acknowledge USAC invoicing requirements and formats. Vendors will conform to invoicing procedures and processes as promulgated by USAC. Any successful bidder is required to have a current Service Provider Identification Number (SPIN) as required by the Healthcare Connect Fund. A SPIN number may be obtained by contacting the Universal Service Administrative Company (www.usac.org). A FCC Registration Number must be obtained from the FCC (<https://fjallfoss/fcc.gov/cores/Web/publicHome.do>).

All costs may not qualify for HCF funding. It is critical that accurate, detailed cost information be provided for all portions of the bid proposal.

EVALUATION CRITERIA

Any and all costs incurred by the vendor in preparing and submitting a proposal are the vendor's responsibility and **shall not** be charged to IRHTP or reflected as an expense of the resulting contract(s). Proposed vendor responses will be based on the following evaluation criteria:

Criteria	Weight
Cost of Solution	40
Implementation Timeline	20
Personnel qualifications, including technical excellence	20
Contract Modification	10
Compliance with RFP Requirements	10

Cost of Solution: Bidder must complete the grid shown in Attachment B in **excel**. Bidder must insert additional columns for line-item level cost associated with providing the service requested. The bidder with the lowest cost will receive the highest score for this criterion.

Implementation Timeline: Please identify the purchase process, including any engineering required, and shipping timeframes. Identify circumstances that may create project delays.

Personnel qualifications, including technical excellence: Bidders shall provide documentation to support qualification of personnel and technical excellence of staff who will be assigned to the project. Personnel qualifications, professional designations and certifications, experience with overall equipment, integration and maintenance capabilities based upon performance record and availability of sufficient high quality vendor personnel with the required skills and experience for the specific approach.

Contract Modification: Vendors must provide information as to the scalability of the proposed bandwidth service, specifically:

1. The process for ordering equipment for new locations added by the consortium at a later date;
2. The process for requesting maintenance contracts at any new location added by the consortium at a later date; and

3. The process for extending the contract for the first and second voluntary extensions, even if IRHTP cannot guarantee more equipment will be purchased during the life of the voluntary extension(s).

Compliance with RFP Requirements: Vendors that following all instructions, and complete all forms attached to this RFP in the manner in which it is required will be awarded the most points for this evaluation criteria. Vendors that are somewhat compliant will receive a score of 5 points. Those vendors that do not following the exact instructions in this RFP will receive a score of 0 points

FAST TRACK CONTRACTING

USAC and the FCC has, for the first time, implemented funding filing periods for the Rural Health Care Support Mechanism as a result of the FY2015 demand of \$377 Million, which is significantly close to the \$400 Million funding allotment per funding year. Funding requests filed for FY2016 exceeded the funding cap for the first time in program history. The first, and potentially only, funding request window for FY2017 ends on June 30th of 2017. Because the RFP will be posted after that date, IRHTP will only be able to request funding for FY2017 if a second filing window opens. It is IRHTP's intent to file for funding in this, potential, 2nd filing request window. If there is no second filing window for FY2017, IRHTP will delay the purchase of the required equipment until FY2018.

The result of this is that IRHTP and the chosen vendor must sign a contract shortly after the allowable contract sign date. All pricing must be valid for the entire 36-month contract period, whether the contract begins on July 1, 2017 or July 1, 2018. Vendors bidding on this RFP are hereby provided notice that if the original contract does NOT contain all of the requirements outlined in this RFP and Attachment E, IRHTP intends on requiring the chosen vendor to negotiate in good faith contract amendments that modify the original contract to reflect the requirements in this RFP. If the chosen vendor does NOT negotiate in good faith to modify the contract to reflect the requirements within this RFP, IRHTP will terminate the contract and enter into contract negotiations with the 2nd most cost effective vendor.

BID SUBMISSION REQUIREMENTS

Program rules require the competitive bid request be posted for a minimum of 28 days. The deadline for submission of bids will be 28 days after the posting on USAC's website.

All RFP responses must contain complete Vendor Questionnaire and Vendor Information Forms, attached to this RFP. **A signed original RFP response, plus one paper copy and one electronic copy of the RFP response should be submitted.**

Bid responses must be received at IRHTP's office no later than 3:00 p.m. CST on the 28th calendar day after the posting of the RFP on the USAC website. This requirement is mandatory. No bid proposal will be accepted after the date and time specified. A late bid proposal will be scored with zeros for all evaluation criteria. Additionally, no bid proposal will be accepted by telephone, electronic mail or facsimile. The bid proposals must be mailed (with mailing in sufficient time to arrive on or before this deadline requirement) or hand delivered, as follows:

Mailing Address:

Iowa Rural Health Telecommunications Program
ATTN: Chad Watters
IRHTP Project Coordinator
100 East Grand Ave., Suite 100
Des Moines, IA 50309

Delivery Address:

Iowa Rural Health Telecommunications Program
ATTN: Chad Watters
IRHTP Project Coordinator
100 East Grand Ave., Suite 100
Des Moines, IA 50309

If bid proposals are delivered by mail service, express courier, delivery service or company, or in person, it shall be the sole responsibility of the Vendor submitting the proposal to insure that such delivery takes place prior to the aforementioned deadline. There shall be no waiving of the deadline due to missed

deliveries on the part of the Vendor, Vendor's delivery staff or Vendor's choice of delivery service(s). Deliveries made directly to IRHTP must be received by a person authorized to accept such delivery.

Attachment A
Listing of HCPs participating in IRHTP

HCP #	HCP Name
10059	George C. Grape Community Hospital
10279	Dallas County Hospital
10306	Marshalltown Medical and Surgical Center
10381	Mercer County Hospital
10425	Hegg Memorial Health Center/Avera Health
10426	Sioux Center Health
10433	Floyd Valley Hospital/Avera Health
10480	Sanford Medical Center-Sheldon
10483	Orange City Area Health System
10500	Sanford Sheldon Sanborn Clinic
10504	Sanford Hospital-Rock Rapids
10528	Spencer Municipal Hospital
10902	Avera Holy Family Health
10903	Osceola Community Hospital/Avera Health
10946	Burgess Health Center
10948	Dunlap Family Medicine Clinic
10950	Burgess Family Clinic - Sloan
11036	Central Community Hospital
11050	Iowa Specialty Hospital - Belmond
11051	Mercy Family Care - Clear Lake
11052	Mercy Family Care - Lake Mills
11054	Mercy Family Care - Forest
11059	Paullina Mercy Medical Clinic
11060	Mercy Family Care - Sheffield
11063	Sioux Center Mercy Medical Clinic
11064	Mercy Family Care - Rockford
11251	Kossuth Regional Health Center - Bancroft Clinic
11348	Palmer Lutheran Health Center
11349	Winneshiek Medical Center/MCHS
11373	Sutherland Mercy Medical Clinic
11381	Maple Valley Mercy Medical Clinic
11405	Stewart Memorial Community Hospital
11465	Adair County Memorial Hospital
11466	Audubon County Memorial Hospital
11468	Davis County Hospital
11469	Hansen Family Hospital - Ellsworth Municipal Hospital
11470	Franklin General Hospital
11472	Hancock County Health System
11473	Van Diest Medical Center - Hamilton County Public Hospital
11474	Kossuth Regional Health Center
11475	Mitchell County Regional Health Center
11478	Mercy Medical Center - New Hampton
11479	Mercy Medical Center - Centerville
11480	Mercy Medical Center-North Iowa East Campus
11486	Ringgold County Hospital
11487	Regional Health Services of Howard County

Attachment A
Listing of HCPs participating in IRHTP

HCP #	HCP Name
11489	Mercy Iowa Heart Center-Carroll
11490	Story County Medical Center
11491	Wayne County Hospital
11492	Madison County Memorial Hospital
11493	Manning Regional Healthcare Center
11494	Monroe County Hospital
11850	Mercy Medical Center-Clinton
11950	Cherokee Regional Medical Center
12371	Sanford Sheldon Hartley Clinic
12552	Palo Alto County Hospital
13196	Hawarden Regional Healthcare - Hawarden Community Hospital
13215	Hull Medical Clinic
13813	Baum Harmon Mercy Hospital
13938	Jackson County Regional Health Center
14022	Marengo Memorial Hospital
14371	Clarinda Regional Health Center
14372	Van Buren County Hospital and Clinics
14571	Iowa Specialty Hospital - Clarion
15881	Keokuk County Health Center
15950	Jefferson County Hospital
16010	Birmingham Medical Clinic
16011	Bonaparte Medical Clinic
16012	Fox River Medical Clinic
16013	Douds Medical Clinic
16014	Farmington Medical Clinic
16130	Mayo Foundation – Mayo Clinic Health System – Floyd County Medical Center
16149	Waverly Health Center
16203	Lucas County Health Center
16463	CHI Health Mercy Corning
16594	Alegent Health Community Memorial Hospital
16616	Washington County Hospital and Clinics
17109	Pella Regional Health Center
17127	Pella Regional - Bussey Family Health Center
17128	Pella Regional - Knoxville Family Medical Clinic
17129	Pella Regional - Monroe Family Health Center
17130	Pella Medical Clinic
17131	Pella Regional Medical - Sully Medical Clinic
17173	Mercy Family Care - Northwood
17176	Mercy Family Care - Greene
17315	Central Iowa Healthcare - Marshalltown Medical & Surgical Center
17481	Henry County Health Center
17551	Knoxville Community Hospital, Inc. - Knoxville Community Hospital
17865	Delaware County Memorial Hospital
17969	Crawford County Memorial Hospital
18096	Methodist Physicians Clinic - Red Oak

Attachment A
Listing of HCPs participating in IRHTP

HCP #	HCP Name
18098	Methodist Physicians Clinic - Glenwood
18174	Pleasantville Clinic
18520	Regional Family Health - Edgewood
23422	Sanford USD Medical Center
25132	CHI Health Mercy Council Bluffs - Alegent Health Mercy Hospital
25133	Boone County Hospital
25134	Buchanan County Health Center
25135	Fort Madison Community Hospital
25136	Genesis Health System
25137	Genesis Health System - De Witt
25138	Genesis Plaza
25139	Genesis-Bettendorf Imaging Center
25140	Great River Medical Center
25142	Horn Memorial Hospital
25143	Methodist Jennie Edmundson Hospital
25144	Keokuk Area Hospital
25145	Lakes Regional Healthcare
25146	Mahaska Health Partnership
25147	Mercy Medical Center-West Lakes
25148	Mercy Iowa City
25149	Mercy Medical Center-Cedar Rapids
25150	Mercy Medical Center-Des Moines
25151	Mercy Medical Center-Dubuque
25152	Mercy Medical Center-Dyersville
25153	Mercy Medical Center-Sioux City
25154	Mercy Ottumwa Medical Center
25155	Radiology Consultants of Iowa, PLC
25156	Delaware County Memorial Hospital dba Regional Medical Center
25157	Shenandoah Medical Center - Shenandoah Memorial Hospital
25158	Skiff Medical Center
25159	University of Iowa Hospitals and Clinics
25160	Veterans Memorial Hospital
25161	Virginia Gay Hospital
25166	Grinnell Regional Medical Center
25177	Mercy Iowa Heart Center-Fort Dodge
25767	Shenandoah Medical Center - Fremont County Medical Center
25859	Alegent Health Clinic - Bedford
25860	Alegent Health Clinic - Woodbine
25861	Alegent Health Clinic - Logan
25862	Alegent Health Clinic - Dunlap
25863	Alegent Health Clinic - Oakland
25892	Sanford Sheldon Boyden Clinic
25908	Alegent Health Clinic - Lenox
25948	Avera McKennan Hospital and University Health Center
25950	Alegent Health - Psychiatric Medical Institute for Children
26591	Alegent Health Clinic - Glenwood

Attachment A
Listing of HCPs participating in IRHTP

HCP #	HCP Name
27664	Knoxville Community Hospital, Inc. - Knoxville Hospital Clinic (Bell Avenue)
31069	Pella Community Hospital Ottomwa Clinic
31192	Madison County Health Care System dba Earlham Medical Clinic
34594	Adair county Medical Clinic- Fontanelle
34595	Adair County Medical Clinic- Stuart
34596	CHI Health Clinic - Missouri Valley
34597	CHI Health Cardiology Clinic - Onawa
34599	Atkins Family Medical Clinic
34602	Boone County Family Medicine
34603	Boone County Family Medicine-Ogden
34605	Burgess Family Clinic - Mapleton
34606	Burgess Family Pharmacy - Whiting
34610	CHS Home
34616	Exira Medical Clinic
34623	Garner Medical Center
34625	Genesis Medical Center - De Witt
34627	Genesis Physical Rehabilitation
34629	Great River Clinic - Wapello
34630	Great River Quick Care
34633	Hawarden Regional Healthcare Clinics -Hawarden
34637	Horn Physicians Clinic - Mapleton
34638	Horn Physicians Clinic - Odebolt
34639	House of Mercy
34641	Wayne County, IA-Humeston Family Medical Clinic
34642	Humeston Medical Clinic
34645	Kossuth Regional Health Center- Algona Clinic
34647	Wayne County, IA-Lineville Medical Clinic-Family Practice
34648	Lynnville Medical Clinic
34650	Boone County-Madrid Family Practice Clinic
34652	Mercy Adel Clinic
34653	Mercy Ambulance Knoxville
34654	Mercy Ambulance Service
34655	Mercy Briarwood Family Medicine
34656	Mercy Carlisle Family Practice
34658	Mercy Diagnostic Imaging Center
34659	Mercy East
34660	Mercy East Village
34661	Mercy Family Care - Perry
34663	Mercy Franklin
34664	Mercy Indianola
34665	Mercy Iowa Heart Center - Ames
34667	Mercy Iowa Heart Center - Marshalltown
34669	Mercy Johnston
34670	Mercy Johnston Elder Care
34671	Mercy Jordan Creek

Attachment A
Listing of HCPs participating in IRHTP

HCP #	HCP Name
34673	Mercy Medical Center - Clinton - South Campus
34674	Mercy Medical Center - Clinton Sleep Lab
34675	Mercy North
34677	Mercy Panora Medical Clinic
34679	Mercy Physicians Billing Office
34680	Mercy Prairie Trail Family Medicine
34681	Mercy Quickcare Clinic - Hickman
34682	Mercy Quickcare Clinic - Ingersoll
34683	Trinity Health-Medical Associates Clinic - Bellevue
34685	Mercy Riverside Rehab- OP PT
34686	Mercy South Family Practice & Urgent Care
34687	Mercy Urbandale
34688	Mercy Urbandale Aurora Medical Clinic
34689	Mercy Warehouse - Jefferson
34690	Mercy Warehouse - New York
34691	Mercy Waukee
34692	Mercy West
34693	Mercy West Grand Medical Center
34701	MMSC Clinic - Tama Toledo
34712	Sanford Clinic George
34713	Sanford Rock Rapids Clinic
34716	Sanford Sheldon Clinic
34718	Seymour Medical Clinic
34719	Shell Rock Clinic
34722	St. Anthony Regional Hospital
34731	The Keokuk Clinic
34733	UI Health Care - Muscatine
34735	UI Health Care - River Crossing
34737	UI Health Care - Sigourney
34745	Victor Health Center
34746	Villisca Family Health Center
34747	Vinton Family Medical Clinic
34748	Vredenburg Center
36691	Genesis Medical Center, Davenport West Campus
36692	Genesis Medical Center - Silvis
36718	Family Medical Center, Lowden
36721	Genesis Health Group. Alpha
36723	Genesis Health Group, Davenport
36727	Genesis Health Group
36728	Genesis Health Group Durant
36730	Genesis Health Group, Eldridge
36821	Genesis Health Group, Erie
36829	Genesis Health Group Bettendorf
36832	Genesis Health Group Muscatine
36834	Genesis Hospice House
36837	Genesis Visiting Nurse Association, Bettendorf

Attachment A
Listing of HCPs participating in IRHTP

HCP #	HCP Name
36839	Genesis Visiting Nurse Association, Clinton
36842	Genesis EAP, Clinton
36844	Genesis EAP, Davenport
36846	Genesis EAP, Muscatine
36847	Genesis EAP, Rock Island
36862	Genesis Health Group, Davenport
36864	Genesis Health Group PS, Davenport
36883	Genesis Health Group Davenport
36885	Genesis Health Group, Rock Island IM
36887	Genesis Health Plex, Moline
36890	Psychology Associates, Davenport
36892	Genesis Physical Therapy, Coralville
36894	Genesis Spiritual Care, Davenport
36896	Genesis Corporate Communications
36898	Genesis Information Technology
36899	Genesis Imaging Center Davenport
36919	Genesis Medical Center Warehouse, Davenport
36920	Genesis Physical Therapy, Davenport (Site A)
36921	Genesis Physical Therapy, LeClaire
36929	Genesis Physical Therapy, Davenport (Site B)
36939	Genesis Ambulance Service, Dewitt
36953	Genesis Ambulance Service, East Moline
36955	Genesis Physical Therapy, Moline
36956	Genesis Occupational Health, Moline
36959	Genesis Occupational Health Davenport
36961	Genesis Outpatient Therapy, Davenport
37021	Genesis Health Group LeClaire
37115	Family Medical Center Blue Grass
43413	Iowa Hospital Association
47309	Avera Health Data Center I

ATTACHMENT A - OneControl Server Specifications (equivalent, technologically neutral)

5-10 Platform requirements

Table 5-7
Intel platforms - Supported for existing deployments WITHOUT virtualization (Part 1 of 2)

Architecture	Intel (Note 1, Note 2)						
Hardware and OS specs							
Model	Oracle X5-2		Dell R820		HP BL620c G7		HP DL360c G7
CPU (Intel Xeon)	2x8-core E5-2650 2.5GHz		2x8-core E5-4640 2.4GHz, E5-4640v2 2.2 GHz, or E5-4650 2.7GHz		2x8-core E7-2830 2.13GHz		2x6-core E5649 2.53GHz
RAM (GB) (Note 3)	128	64	128	64	128	64	64
Hard disks	6 x 600GB	4x 600GB	2 x 1.2TB		2 x 1.2TB		2 x 1.2TB
Operating System	Red Hat Enterprise Linux or Oracle Linux: 5.11,6.7, 6.8, 7.1, 7.2 (64-bit) (Refer to “Linux OS version required (new installs)” on page 5-29 for details)						
Configurations supported							
OneControl only	√	√	√	√	√	√	√
OneControl + ESM	√	√	√	√	√	√	√
OneControl + ESM + Manager for 6k/OM5k/CPL	√	√	√	√	√	√	√
Remote Manager for 6k, OM5k and CPL	√	√	√	√	√	√	√
Support for deployments requiring Oracle DB	√	√	√	√	√	√	√
Support for Oracle DB co-resident with OneControl	√	√	√	√	√	√	√
Support for use as Remote Oracle DB server	√	√	√	√	√	√	√
Note 1: External Alarm Interface (EAI) supported only on Solaris 10 & 11.3, and Linux 5.11, 6.6, 6.7,6.8, 7.1 & 7.2. Management of CoreStream supported only on Solaris 10 (not supported on Linux, Solaris 11.x).							
Note 2: Linux platforms are not supported for use in conjunction with the legacy Preside AP software. If you intend to use OneControl’s Manager for 6k, OM5k and CPL component in conjunction with Preside AP, all Manager for 6k, OM5k and CPL components (local or remote) must be deployed on Solaris platforms.							
Note 3: If the platform is being used as a Remote Oracle DB server, the amount of RAM can be dropped to 48G (or 32GB for the HP BL620cG7).							

Table 5-8
Intel platforms - Supported for existing deployments WITHOUT virtualization (Part 2 of 2)

Architecture	Intel (Note 1, Note 2)							
Hardware and OS specs								
Model	Oracle X4-2		Oracle X3-2		Oracle 4270 M2		Oracle 2270 M2	
CPU (Intel Xeon)	2x8-core E5-2650 2.5GHz	2x4-core E5-2609 2.5GHz	2x6-core E5-2640 2.5 GHz	2x -core E5-2609 2.4 GHz	2x6-core X5675 3.06GHz		2x4-core E5620 2.4 GHz	
RAM (GB) (Note 3)	64	48	64	48	64	48	64	32
Hard disks	4 x 600 GB	2 x 600GB	4x600 GB or 1x1.2 TB	2 x 600GB	4 x 600 or 1 x 1.2 TB		2 x 600 GB	2 x 600 GB
Operating System	Red Hat Enterprise Linux or Oracle Linux: 5.11,6.7, 6.8, 7.1, 7.2 (64-bit) (Refer to “Linux OS version required (new installs)” on page 5-29 for details)							
Configurations supported								
OneControl only	√	√	√	√	√	NO	√	√
OneControl + ESM	√	√	√	√	√	NO	√	√
OneControl + ESM + Manager for 6k/OM5k/CPL	√	√	√	√	√	NO	√	NO
Remote Manager for 6k, OM5k and CPL	√	√	√	√	√	NO	√	√
Support for deployments requiring Oracle DB	√	√	√	√	√	N/A	√	NO
Support for Oracle DB co-resident with OneControl	√	NO	√	NO	√	N/A	NO	NO
Support for use as Remote Oracle DB server	√	√	√	√	√	√	NO	NO
Note 1: External Alarm Interface (EAI) supported only on Solaris 10 & 11.3, and Linux 5.11, 6.6, 6.7,6.8, 7.1 & 7.2. Management of CoreStream supported only on Solaris 10 (not supported on Linux, Solaris 11.x). Note 2: Linux platforms are not supported for use in conjunction with the legacy Preside AP software. If you intend to use OneControl’s Manager for 6k, OM5k and CPL component in conjunction with Preside AP, all Manager for 6k, OM5k and CPL components (local or remote) must be deployed on Solaris platforms. Note 3: If the platform is being used as a Remote Oracle DB server, the amount of RAM can be dropped to 48G (or 32GB for the HP BL620cG7).								

Table 5-9
Intel platforms - Recommended and supported for deployments WITH virtualization

VM Configuration (Note 2, Note 4, Note 5, Note 6)	OneControl			Remote Manager for 6k, OM5k and CPL	Remote Oracle DB
Platform model	See Note 1 - When deployed in a virtualized Intel VMware environment, OneControl is only supported and certified for the Intel hardware platforms specified in the note.				
CPUs to assign to VM	2x10-core Intel Xeon E7-4870	2x8-core Intel Xeon E7-4830, E7-2830	1x8-core Intel Xeon E7-4830, E7-2830	1x8-core Intel Xeon E7-4830,E7-2830	1x8-core Intel Xeon E7-2830
VMware config: (Note 3)					
Virtual sockets:	2	2	1	1	1
Cores per socket:	10	8	8	8	8
Total cores:	20	16	8	8	8
RAM (GB)	128 / 64	128 / 64	64	64 / 32	32
Hard disk space for VM	1.2TB	1.2TB	500GB	500GB or 1.2TB	2 x 1.2TB
Local Oracle DB	YES	YES	NO	N/A	N/A
Operating System	Red Hat Enterprise Linux or Oracle Linux: 5.11,6.7, 6.8, 7.1, 7.2 (64-bit) (Refer to “Linux OS version required (new installs)” on page 5-29 for details) Virtualization software: VMware ESXi 5.0/5.1/5.5/6.0 (Refer to “VMware ESXi for Linux (RHEL/OL) virtualization” on page 4-6 for details)				
Note 1: When deployed in a virtualized Intel VMware environment, OneControl is only supported and certified on VMs created on the following hardware platforms. Use of different vendor hardware models with the same Intel Xeon CPU specifications does not guarantee the same capacities, throughputs and response times, and can only be supported on a best effort basis:					
		Disk slots available	Max RAM possible	Total cores possible	
Model	Max CPUs possible				
• HP BL660cG9	2x10-core E5-2640v4, 2.6GHz	4x1.2TB	2.0TB	20	
• HP BL660cG9	4x10-core E5-4620v3, 2.0GHz	4x1.2TB	2.0TB	40	
• HP BL680cG7	4x10-core E7-4870, 2.4 GHz	4x1.2TB	2.0TB	40	
• HP BL680cG7	4x8-core E7-4830, 2.13 GHz	4x1.2TB	2.0TB	32	
• IBM System x3690 X5	2x8-core E7-2830, 2.13GHz	2x1.2TB	512GB	16	
• Dell R730	2x10-core E5-2640v4, 2.4GHz	4x1.2TB	1.5TB	20	
• Dell R820	4x8-core E5-4650, 2.7GHz	16x1.0TB	1.5TB	32	
• Dell R830	4x8-core E5-4650v4, 2.2GHz	16x1.2TB	3.0TB	16	
• HP DL560 G9	4x10-core E5-4627v4, 2.6GHz	5x1.5TB	1.5TB	40	
• HP DL560c G8	4x8-core E5-4650, 2.7G Hz	5x1.2TB	1.5TB	16	
• HP BL660c G8	2x8-core E5-4620v2, 2.6 GHz	2x1.2TB	1.0TB	16	
• HP BL620c G7	2x8-core E7-2830, 2.13 GHz	2x1.2TB	1.0TB	16	
• Most platforms can be ordered with number of CPUs desired (from 1 to max)					
• On most platforms the max RAM possible decreases proportionately if the max CPUs possible is not used (eg. BL680cG7 with only 2 CPUs can have max RAM of 1TB)					
• Memory DIMMs of up to 32G each may be required to reach the max RAM possible					
• Requirements in this table refer to cores (not to be confused with logical processors, which is a parameter VMware displays for CPUs that support hyperthreading).					
Note 2: Use the VM configuration specified in this table to calculate how many VMs can be housed on each of the supported hardware models. Eg. In a BL620cG7, you can create two Remote Manager for 6k, OM5k and CPL VMs.					
Note 3: The VMware config required is in terms of virtual sockets, cores per socket and total cores (the parameters displayed when creating a new VM). Post-creation, the VM config summary displays this as CPUs or vCPUs. To see if an existing VM meets OneControl requirements, ensure you compare cores (not logical processors). The required CPU resources must be fully reserved for OneControl, and not be oversubscribed. Oversubscription can result in CPU resources not being available during high volume network events. If oversubscription is used, the OneControl performance detailed in this guide cannot be guaranteed					
Note 4: For multi blade deployments, up to 2 x BL680cG7 blades, or up to 4 x BL620cG7 blades, are supported using a C3000 enclosure. To allow for future growth, a C7000 enclosure can be used.					
Note 5: Linux platforms are not supported for use in conjunction with the legacy Preside AP software. If you intend to use OneControl's Manager for 6k, OM5k and CPL component in conjunction with Preside AP, all Manager for 6k, OM5k and CPL components (local or remote) must be deployed on Solaris platforms.					
Note 6: External Alarm Interface (EAI) supported only on Solaris 10 & 11.3, and Linux 5.11, 6.6, 6.7, 6.8, 7.1 & 7.2. Management of CoreStream supported only on Solaris 10 (not supported on Linux, Solaris 11.x).					

Client platform requirements

The OneControl client is supported on the hardware platforms specified in [Table 5-10](#).

Table 5-10
Client hardware platforms

Platform architecture	Windows PC (single client)	Windows PC (multiple clients)	Citrix server PC (multiple clients)	Oracle SPARC or Intel hardware platform (multiple clients)
Platform model	Intel based PC	Intel based PC	Intel based PC	All Oracle SPARC platforms (running Solaris), and all Intel hardware platforms (running Linux) that are supported for OneControl server. Must meet same OS requirements and Ciena OS bundle requirements as those for OneControl server. <i>(For limited operations)</i>
CPU	Dual Core 2.2 GHz or better	Quad Core (eg. i7) 3 GHz or better	Quad Core (eg. i7) 3 GHz or better	
RAM (GB)	4 (Note 1, Note 2)	64 (Note 3)	64 (Note 3)	
Hard disk free space (GB)	20 (Note 4)	200 (Note 5)	200 (Note 5)	
Operating System (Note 10,Note 11)	<ul style="list-style-type: none">Windows 10 Pro or Enterprise Edition (64-bit)Windows 7 Professional, Ultimate or Enterprise Edition (32-bit & 64-bit) (Note 6, Note 9)	<ul style="list-style-type: none">Windows 2012 Server (64-bit) using Remote Desktop (Note 7, Note 9)	<ul style="list-style-type: none">Windows 2008 Server R2 (64-bit) running Citrix Xen App 5.6, 6.0 or 6.5 (Note 8, Note 9)	
Browser	<ul style="list-style-type: none">IE 6.1 or laterFirefox 3.6.x or later	<ul style="list-style-type: none">IE 6.1 or laterFirefox 3.6.x or later	<ul style="list-style-type: none">IE 6.1 or laterFirefox 3.6.x or later	
Limitations and considerations	Refer to “Guidelines and considerations for choosing OneControl client platform” on page 5-14 for important considerations when choosing platform for OneControl client.			
<p>Note 1: At least 1.5 GB of the RAM must be reserved for the OneControl client only.</p> <p>Note 2: This configuration allows for 2 instances of the Integrated Site Manager functionality to be launched per OneControl client.</p> <p>Note 3: This configuration allows for 3-4 instances of the Integrated Site Manager functionality to be launched per OneControl client. If more instances are required additional RAM is required (approximately 300MB per Integrated Site Manager instance, per OneControl client).</p> <p>Note 4: The hard disk space listed for Windows PC (single client) is for the OneControl client only. Any space required for the Windows operating system and other user files must be added to this value.</p> <p>Note 5: The hard disk space listed for Windows PC (multiple clients) & Citrix server PC (multiple clients) includes the space required for the OneControl client, the Windows operating system (and the Citrix Xen App software if applicable).</p> <p>Note 6: Refer to “Windows OS requirements (single client platforms)” on page 5-53 for details.</p> <p>Note 7: Refer to “Windows OS requirements (multiple client platforms)” on page 5-54 for details.</p> <p>Note 8: Refer to “Citrix requirements (multiple client platforms)” on page 5-54 for details.</p> <p>Note 9: When using the OneControl client on a Windows 10, Windows 2012, or Windows 2008 platform, Desktop Experience Mode must be installed. On Windows 10 Tablet mode must be turned off. Refer to the OneControl Installation Part 1, 450-3201-201 for the procedure on installing the OneControl client.</p> <p>Note 10: Windows clients are only supported on the English version of the Windows OS installation. Furthermore, changing the language setting to English post Windows OS installation will not suffice.</p> <p>Note 11: Minimum required Java version is 1.6u45</p>				

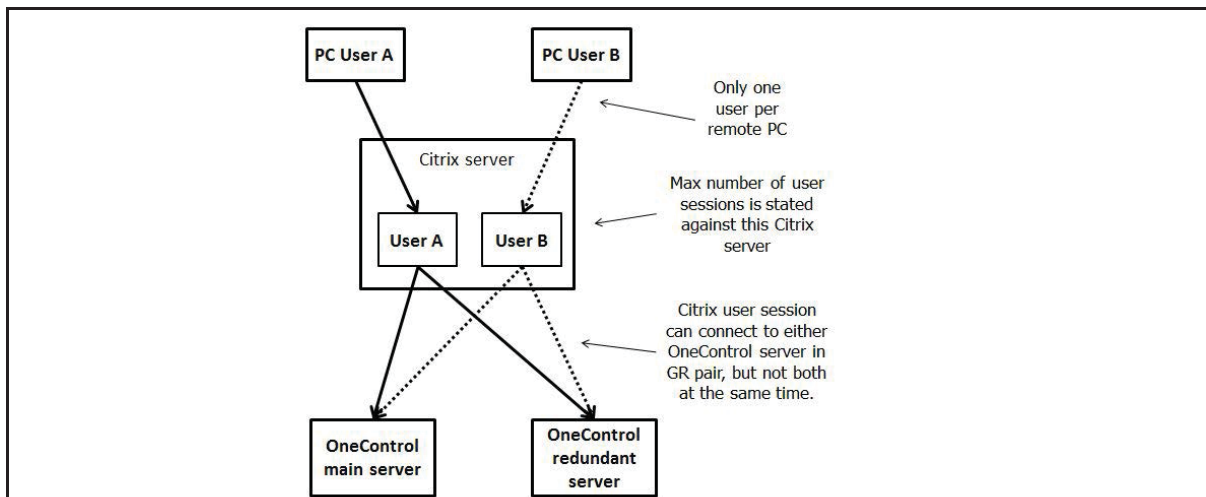
Guidelines and considerations for choosing OneControl client platform

The following guidelines should be taken into account when choosing a platform for the OneControl client:

- The recommended hardware platform for the OneControl client is a Windows PC or a Citrix server PC, as indicated in [Table 5-10](#). A Solaris/Linux version of the OneControl client is available for limited operations (details provided in this section). However, for optimal client performance, a Windows PC or a Citrix server PC is strongly recommended.
- Users who will install the OneControl client must have:
 - administrator privileges (Windows)
 - privileges to read and write to the directory or folder where the OneControl client will be installed
 - privileges to read and write to their own home directory or folder
- Users who will use the OneControl client after the installation is complete, must have:
 - privileges to read and write to their own home directory or folder
- When running multiple OneControl clients using a Citrix server PC:
 - Each OneControl client instance must run in its own user login session (i.e. every Citrix “client session” must correspond to a separate Windows user login session, and all processes and memory spaces used by one Windows user must not interact in any way with other user sessions). See [Figure 5-1 on page 5-15](#) for an example.
- When using OneControl in conjunction with the legacy Preside AP software, direct launch of the Site Manager (SM) nodal craft interface for 6500/CPL is not supported directly from AP (as of OneControl 6.0). Customers using Windows clients are not impacted (including Windows installs of Site Manager and Windows installs of the OneControl client with Integrated Site Manager).
- Limited operations of OneControl client running on Solaris/Linux:
 - There is no OneControl client for use on Linux 7.1/7.2 (Linux 7.1/7.2 will not include any X11/VNC support).
 - There is no OneControl client support on Solaris 11.3.
 - The Shelf Level View is only supported on Windows and Linux 6.x clients (not supported on Linux 5.x clients or Solaris clients).
 - CTM client launch for CoreStream NEs is not supported on Solaris or Linux platforms.
 - SRS scan export operation is only supported on Windows and Citrix clients.

- When running the OneControl client on a Solaris or Linux platform, co-resident with the OneControl server.
 - The Site Manager (SM) nodal craft interface for 6500/CPL cannot be launched for any NEs managed via Remote Manager for 6k, OM5k and CPL components.
 - The System Manager Interface (SMI) nodal craft interface for 565/5100/5200 is not supported on Linux (and so cannot be launched if the OneControl client is running on Linux). It can also not be launched from within the Manager for 6k, OM5k and CPL dialog when the OneControl client is running on Solaris.
- When running the OneControl client on a Solaris or Linux platform, and on a separate platform from the OneControl server:
 - The nodal craft interface cannot be launched for any NEs managed via any Manager for 6k, OM5k and CPL components (this includes 6110, 6130, 6150, 6200, 6500, CPL, 565, 5100, 5200 NE types).
- When running the OneControl client specifically on Linux 6.x, the Linux 6.x base OS install includes only TWM Window Manager (doesn't support right mouse button, or left double-click). In order to access any menu items usually accessible via right-click or double-click you can:
 - Install another window manager package on top of the Linux 6.x base install (eg. GNOME), or
 - For right-click, hold down the right button and hit the middle button. For left button double-click, hold down the left button and double click on the middle button.

Figure 5-1
Citrix server deployment



ATTACHMENT B
IRHTP Equipment Replacement

IRHTP Network Equipment Replacement Project

Ciena OneControl - Network Management - Ethernet Services Manager - Components List

Product Description	Item Code	QTY	Ciena List Price	Unit Bid Price	Project QTY Total
ESM CARRIER EDITION BACK END APPLICATION SERVER LICENSE FOR 2 CPU CORES	ESMC-BEAS2P	1			1
ONECONTROL UMS - SERVER LICENSE R6.0	S11-1C-600	1			1
ESM CARRIER ED RIGHT TO MANAGE PERPETUAL SOFTWARE LICENSE FOR 3930	S70-0005-900	1			89
ESM CARRIER ED RIGHT TO MANAGE PERPETUAL SOFTWARE LICENSE FOR 5142	S70-0013-900	1			34
ESM CARRIER ED RIGHT TO MANAGE PERPETUAL SOFTWARE LICENSE FOR 5160 SYSTEM	S70-0018-900	1			25
V-WAN ADVANCED SOFTWARE LICENSE, 1YR	S15-VWAN-SW1Y	1			5
MYPERFORMANCE SOFTWARE LICENSE, 1 YR	S15-MYPF-SW1Y	1			5
MYPORTAL SOFTWARE LICENSE, 1 YR	S15-MYPT-SW1Y	1			5
V-WAN 10 ENDPOINT SCALING UNITS LICENSE, 1 YR	S15-VWAN-10ESU	1			15
SMARTSUPPORT ONECONTROL UMS MAXIMUM	80M-1CSP-SSP	1			1
Server - for OneControl Unified Management System - *See OneControl_Server Specifications		1			1
OneControl Unified Management System Server Maintenance - 5 Year		1			1

Ciena 5160 - IRHTP Core Network Switch - Components List

Product Description	Item Code	QTY	Ciena List Price	Unit Bid Price	Project QTY Total
5160,(24)1G/10G SFP+,EXT.TEMP,(2)SLOTS AC OR DC PLUG POWER SUPPLY	170-5160-900	1			20
5160,DC PLUGGABLE POWER SUPPLY, WIDE RANGE 14/48V	170-0069-900	1			40
10FIF, SM SFP+, TUNABLE-DWDM, LC CONNECTOR, 80 KM	SCVR-T80W01	1			47
19 INCHES RACK MOUNT EARS,FOR USE W/ 1RU CHASSIS, INCLUDES CABLE MANAGEMENT	170-0602-903	1			20
SAOS ADVANCED ETHERNET PERPETUAL SOFTWARE LICENSE FOR 5160 SYSTEM	S70-0017-900	1			20
SAOS ADVANCED OAM PERPETUAL SOFTWARE LICENSE FOR 5160 SYSTEM	S70-0017-901	1			20
SAOS ADVANCED MPLS APPLICATION PERPETUAL SOFTWARE LIENSE FOR 5160 SYSTEM	S70-0017-903	1			20
SAOS ADVANCED SECURITY PERPETUAL SOFTWARE LICENSE FOR USE WITH SAOS 6.X	170-0204-900	1			20
5160 SMARTSUPPORT SERVICE, PER CHASSIS, 5 YEARS	80M-5160-SM5	1			20
5160 HARDWARE REPAIR SERVICE 10 DAY, PER CHASSIS, 4 YEARS	80M-5160-HW4	1			20

Ciena 5160 - Big Aggregation Switch - Components List

Product Description	Item Code	QTY	Ciena List Price	Unit Bid Price	Project QTY Total
5160,(24)1G/10G SFP+,EXT.TEMP,(2)SLOTS AC OR DC PLUG POWER SUPPLY	170-5160-900	1			5
5160,DC PLUGGABLE POWER SUPPLY, WIDE RANGE 14/48V	170-0069-900	1			10
100M/1 GIG, SM SFP OPTIC, LC CONNECTOR, 120 KM, 1490 NM, EXT. TEMP	XCVR-A00D49	1			5
SAOS ADVANCED ETHERNET PERPETUAL SOFTWARE LICENSE FOR 5160 SYSTEM	S70-0017-900	1			5
SAOS ADVANCED OAM PERPETUAL SOFTWARE LICENSE FOR 5160 SYSTEM	S70-0017-901	1			5
SAOS ADVANCED MPLS APPLICATION PERPETUAL SOFTWARE LIENSE FOR 5160 SYSTEM	S70-0017-903	1			5

ATTACHMENT B
IRHTP Equipment Replacement

SAOS ADVANCED SECURITY PERPETUAL SOFTWARE LICENSE FOR USE WITH SAOS 6.X	170-0204-900	1			5
19 INCHES RACK MOUNT EARS,FOR USE W/ 1RU CHASSIS, INCLUDES CABLE MANAGEMENT	170-0602-903	1			5
5160 SMARTSUPPORT SERVICE, PER CHASSIS, 5 YEARS	80M-5160-SM5	1			5
5160 HARDWARE REPAIR SERVICE 10 DAY, PER CHASSIS, 4 YEARS	80M-5160-HW4	1			5

Ciena 5142 - Small Aggregation Switch - Components List

Product Description	Item Code	QTY	Ciena List Price	Unit Bid Price	Project QTY Total
5142, (20) 100/1000M SFP, (4) 1G/10G SFP+, SYNC, EST.TEMP, (2)SLOTS AC of DC PLUG POWER	170-5142-930	1			27
3930/3925/5142, DC PLUGGABLE POWER SUPPLY, WIDE RANGE 24/48V	170-0013-900	1			54
100M/1 GIG, SM SFP OPTIC, LC CONNECTOR, 120 KM, 1490 NM, EXT. TEMP	XCVR-A00D49	1			27
SAOS ADVANCED ETHERNET PERPETUAL SOFTWARE LICENSE FOR 5142	S170-0012-900	1			27
SAOS ADVANCED OAM PERPETUAL SOFTWARE LICENSE FOR 5142	S170-0012-901	1			27
SAOS ADVANCED MPLS APPLICATION PERPETUAL SOFTWARE LIENSE FOR 5142	S170-0012-903	1			27
SAOS ADVANCED SECURITY PERPETUAL SOFTWARE LICENSE FOR USE WITH SAOS 6.X	170-0204-900	1			27
19 INCHES RACK MOUNT EARS,FOR USE W/ 1RU CHASSIS, INCLUDES CABLE MANAGEMENT	170-0602-903	1			27
SMARTSUPPORT, 5142, 5 YEAR	80M-5142-SM5	1			27
HARDWARE REPAIR SERVICE 10-DAY MAINTENANCE, 5142, 4 YEAR	80M-5142-HW4	1			27

Ciena 5142 - Hospital Edge Switch - Big - Components List

Product Description	Item Code	QTY	Ciena List Price	Unit Bid Price	Project QTY Total
5142, (20) 100/1000M SFP, (4) 1G/10G SFP+, SYNC, EST.TEMP, (2)SLOTS AC of DC PLUG POWER	170-5142-930	1			7
3930/3925/5142, AC PLUGGABLE POWER SUPPLY, WIDE RANGE 120/240V	170-0014-900	1			14
10 GIG, SM SFP+ OPTIC, LC CONNECTOR, 80 KM, 1490 NM	XCVR-C80D49	1			7
SAOS ADVANCED ETHERNET PERPETUAL SOFTWARE LICENSE FOR 5142	S170-0012-900	1			7
SAOS ADVANCED OAM PERPETUAL SOFTWARE LICENSE FOR 5142	S170-0012-901	1			7
SAOS ADVANCED MPLS APPLICATION PERPETUAL SOFTWARE LIENSE FOR 5142	S170-0012-903	1			7
SAOS ADVANCED SECURITY PERPETUAL SOFTWARE LICENSE FOR USE WITH SAOS 6.X	170-0204-900	1			7
AC POWER CORD, IEC D13, 5-15P, 125VAC, 10A, 10FT	170-0044-900	2			14
19 INCHES RACK MOUNT EARS,FOR USE W/ 1RU CHASSIS, INCLUDES CABLE MANAGEMENT	170-0602-903	1			7
SMARTSUPPORT, 5142, 5 YEAR	80M-5142-SM5	1			7
HARDWARE REPAI SERVICE 10-DAY MAINTENANCE, 5142, 4 YEAR	80M-5142-HW4	1			7

Ciena 3930 - Hospital Edge Switch - Components List

Product Description	Item Code	QTY	Ciena List Price	Unit Bid Price	Project QTY Total
3930, (4)100M/1000M SFP, (4)100/1000M SFP/RJ-45, (2) 1G/10G SFP+, EXT TEMP, (2) SLOTS AC/DC PWR	107-3390-900	1			89
3930/3925/5142,AC PLUGGABLE POWER SUPPLY,WIDE RANGE 120/240V	107-0014-900	1			178
100M/1 GIG, SM SFP OPTIC, LC CONNECTOR, 120 KM, 1490 NM, EXT. TEMP	XCVR-A00D49	1			89
SAOS ADVANCED ETHERNET PERPETUAL SOFTWARE LICESNSE FOR 3930	S70-0001-900	1			89

ATTACHMENT B
IRHTP Equipment Replacement

SAOS ADVANCED OAM PERPETUAL SOFTWARE LICESNSE FOR 3930	S70-0001-901	1			89
SAOS ADVANCED MPLS APPLICATION PERPETUAL SOFTWARE LICESNSE FOR 3930	S70-0001-903	1			89
SAOS ADVANCED SECURITY PERPETUAL SOFTWARE LICESNSE FOR USE WITH SAOS 6.X	170-0204-900	1			89
AC POWER CORD, IEC C13, NORTH AMERICA	CABL-PW01NA	2			178
19 INCHES RACK MOUNT EARS,FOR USE W/ 1RU CHASSIS,INCLUDES CABLE MANAGEMENT	170-0602-903	1			89
SMARTSUPPORT, 3930, 5 YEARS	80M-3903-SM5	1			89
HARDWARE REPAIR SERVICE 10 DAY MAINTENANCE, 3930 4 YEARS	80M-3930-HW4	1			89

Ciena 2150 - CWDM Passive Optical System - Components List

Product Description	Item Code	QTY	Ciena List Price	Unit Bid Price	Project QTY Total
2150 PASSIVE OPTICAL MULTIPLEXER (3-SLOT) CHASSIS, WITH PRACKETS AND COVER	K80-0002-902	1			180
CN 2150-BLK-ASSY, FACEPLATE, BLANK, HALF-WIDTH,CN 2150	B-390-0069-001	1			180
CN 2150-KIT-19 - CHASSIS, 19 IN. BRACKETS, FIBER BAR AND COVER	B-967-0001-002	1			180
CN-C80-00, 8-CH CWDM	B-720-0022-008	1			180
CN-C80-13, 8-CH CWDM W/1310	B-720-0022-009	1			180

Ciena Carrier Ethernet/Packet Networking System Training - Components List

Product Description	Item Code	QTY	Ciena List Price	Unit Bid Price	Project QTY Total
CARRIER ETHERNET SWITCHES SAOS 6 & 7 QOS MANAGEMENT SEAT MARYLAND	TRN-E663-SM	1			6
CESD ETHERNET SERVICES PROVISIONING KIT SEAT MARYLAND	TRN-K603-SM	1			6
CIENA ELEARNING SUBSCRIPTION, ESUB DIGITAL EXPERIENCE SUBSCRIPTION (PARTNER)	TRN-S161-PES	1			6
CIENA ELEARNING SUBSCRIPTION, ESUB DIGITAL EXPERIENCE SUBSCRIPTION	TRN-S161-CES	1			6
Solution Design Service - Solution Principles	80P-SDS0-SP0	1			1

IRHTP Equipment Replacement Project Total

BID REQUIREMENT, IRHTP Maintenance Partner (Iowa Communications Network) will have Direct Contact to Ciena Manufacture Support, NOT thru bidder

When providing a bid, please bear in mind that the above list is technologically NEUTRAL. Please bid on any equipment that is equivalent to what IRHTP seeks.

ATTACHMENT C

VENDOR INFORMATION FORM

The purpose of this form is to collect information necessary for the applicant to choose a vendor to provide the requested services in the RFP. In addition, certain information being collected is required to be submitted to the Universal Service Administrative Company (USAC) when the applicant submits its request for funding. If the Vendor has multiple Service Provider Identification Numbers (SPINs) with USAC, the Vendor must submit one Vendor Information Form per SPIN.

Legal Name: _____

Doing Business As: _____

Service Provider Identification Number: _____

Address1: _____

Address2: _____ County: _____

City: _____ State: _____ Zip Code: _____

Type of Business: _____ No. of Employees: _____

State of Incorporation: _____ Registered in State? Yes No

Local Office Address1: _____

City: _____ State: _____ Zip Code: _____

Phone Number: _____

Vendor's representative regarding contractual and technical matters concerning this proposal:

Name: _____

Office Phone Number: _____ Mobile: _____

Email: _____

Vendor's representative regarding scheduling and other arrangements:

Name: _____

Office Phone Number: _____ Mobile: _____

Email: _____

ATTACHMENT D

VENDOR QUESTIONNAIRE

This purpose of this Questionnaire is to obtain information necessary for the Applicant to choose the most cost effective service provider in accordance with the evaluation criteria outlined on the FCC Form 461. The following administrative/legal information is needed to allow the Applicant to make an informed decision when selecting the most cost effective service provider.

Legal Name: _____

Doing Business As: _____

Service Provider Identification Number: _____

Has the Vendor updated the FCC Form 498 to participate in the HCF program? Yes No

During the last five (5) years, has the Vendor been barred, suspended or otherwise prohibited from participating in the Federal Communication Commission E-Rate (Schools & Libraries) or Rural Health Care Programs? Yes No Unknown

During the last five (5) years, has the Vendor been subject to a whistleblower investigation or any other investigation conducted by the Universal Service Administrative Company or the Federal Communication Commission, for any universal service program? Yes No Unknown

During the last five (5) years, has the Vendor been a party to a lawsuit involving any existing or prior contracts as it relates to services performed or not performed that are similar to the services contemplated by this RFP and the resulting contract. Yes No Unknown

During the last five (5) years, has the Vendor been a party to a Notice of Apparent Liability for Forfeiture and Order issued by the Federal Communications Commission? Yes No Unknown

If the Vendor responds yes to any of the prior four questions, please provide information concerning the investigation/lawsuit/government action to the Applicant. If the Vendor responded yes to the last question, please provide information pertaining to any monetary damages or exchange of property or services and the state in which the lawsuit was filed. If the Vendor is found to have provided incorrect or inaccurate information, the Vendor's response to the RFP will be reviewed in light of the false information provided on this Attachment.

Authorized Person Signature: _____

Name of Person Authorized: _____

Title of Authorized Person: _____

Phone Number: _____ Date of Signature: _____

ATTACHMENT E

VENDOR RFP COMPLIANCE

This purpose of this document is to confirm in writing that the Vendor fully understands certain requirements as outlined Request for Proposals.

Legal Name: _____

Doing Business As: _____

Service Provider Identification Number: _____

The Applicant is required to comply with the FCC requirements pertaining to a “Fair and Open” Competitive Bidding Process. The Vendor understands the requirements pertaining to a “Fair and Open” competitive bidding processes and will comply with those requirements.

Yes, Vendor understands and is compliant

No, Vendor will not comply

The Applicant is required to provide all Vendors who wish to bid an opportunity to do so, regardless of technology. Vendor understands that all technology specific information in this RFP is meant to be **guidance only**. Any vendor, regardless of the technology that the vendor uses to provide service, is welcome to submit a bid for this RFP. If the vendor cannot provide the specific technology requested (example: QoS) the vendor should respond with detailed information on exactly what **equivalent** service the vendor can provide.

Yes, Vendor understands and is compliant

No, Vendor will not comply

The Applicant is required to provide all Vendors the same information. The applicant is utilizing a “Notice of Intent to Bid” and a Question and Answer process to comply with this requirement. Only vendors who provide a Notice of Intent to Bid will receive direct copies of the Q&A document as outlined in the RFP. It is the responsibility of the Vendor wishing to bid to provide a Notice of Intent to Bid and to ask questions timely.

Yes, Vendor understands and is compliant

No, Vendor will not comply

The Applicant is requesting a contract term at the “consortium level” and not the circuit level. To be specific, the contract term is static, for any and all circuits ordered. The Applicant will not enter into a contract where the term is at the circuit level – meaning when a circuit is installed, a new term begins for that specific circuit.

Yes, Vendor understands and is compliant

No, Vendor will not comply

For services which will be funded through the federal Healthcare Connect Fund, the service provider will need to be in compliance with the rules pertaining to invoicing the program administrator, USAC.

Yes, Vendor understands and is compliant

No, Vendor will not comply

The Applicant has developed an invoicing methodology which each Vendor providing it services must comply. Vendors attests that it has read the section "Invoicing for Services Received/Delivered" in the RFP, understands the requirements outlined and ***will comply with the requirements.***

Yes, Vendor understands and is compliant

No, Vendor will not comply

The Applicant is a long time applicant in the Rural Health Care Support Mechanism. The Applicant also takes seriously its requirement to pay its non-subsidized portion of the eligible services received, as well as timely filing of funding requests to USAC. Vendors responding to this RFP should be aware, that there will be period of time when service is first installed when the Vendor will only receive payment of the non-subsidized portion of eligible services. The Applicant is **only required** to pay the *estimated* non-subsidized portion of the eligible cost until such time as USAC issues a funding commitment decision. Unless otherwise noted, all circuits listed in the RFP are expected to be funded through the Healthcare Connect Fund. As a result, the *estimated* undiscounted portion is 35% of the actual total cost for the service.

Yes, Vendor acknowledges and agrees

No, Vendor does not agree

During the life of the contract, vendor will **not charge** late fees for any circuit or service for which vendor receives on-time payment of the Applicant's estimated non-subsidized portion of the charges.

Yes, Vendor acknowledges and agrees

No, Vendor does not agree

During the life of the contract, vendor will **not charge** interest fees for any circuit or service for which vendor receives on-time payment of the Applicant's estimated non-subsidized portion of the charges.

Yes, Vendor acknowledges and agrees

No, Vendor does not agree

Authorized Person Signature: _____

Name of Person Authorized: _____

Title of Authorized Person: _____

Phone Number: _____ Date of Signature: _____