

April 27, 2011

Sharon Gillett
Chief
Wireline Competition Bureau
Federal Communication Commission
Sharon.gillett@fcc.org

Re: Docket No. 02-06: Follow-up GMTBI Request for a one year extension of the RHCPP

Attention: Ms. Gillett

On February 18, 2011, I wrote to you on behalf of the Greater Minnesota Telehealth Broadband Initiative (GMTBI) requesting a favorable decision from the FCC for a one year extension of the June 30, 2011, deadline for filing of WC Docket No. 02-60, Rural Health Care Pilot Program (RHCPP). A copy of my letter is attached.

This follow-up letter urgently requests the FCC's favorable response to our request for extension and provides additional information In order to assist you in this request. Without a timely and favorable decision of this extension request our project is at risk of failing to complete the network we have begun to create through the past 4 years. Failure to build the network out to the remaining 126 healthcare organizations will result in:

- Harm to the sites that have already committed and made the investment required to participate in the network
- Failure to leverage the GMTBI network backbone that will be live and operational in summer 2011, and
- Loss of opportunity to bring the vision of our GMTBI statewide healthcare network to fruition.

Summary of GMTBI project

The GMTBI project includes 3 phases and a total of 144 connections, (**GMTBI Project Table: Network Development Phases 1-3 and Attachment A, HCP Map**).

- **Phase 1**, completed in 2010, focused on bringing service to several critical access hospitals that were in urgent need of high-speed broadband for completion of a shared electronic health record. It is live and operational at this time.
- **Phase 2**, recently approved for funding through USAC, a significant planning effort, builds the centrally-managed infrastructure that will support the current project and position Minnesota for its first rural health care broadband network.

- **Phase 3** represents the majority of the network sites; 126 sites that will connect to the infrastructure built in Phases 1 and 2. The request for proposal and the Form 465 package was filed with USAC for posting on April 18, 2011.

Once completed, the GMTBI network will connect 144 health care provider participants that include critical access hospitals, rural health clinics, community mental health facilities, data centers, and larger regional hospitals (Attachment B, HCP Listing). The completed GMTBI network plan includes a primary core, four POP locations, and MPLS-Cloud technology (Attachment C, Network Design).

Rationale for extension

In the history of the project thus far, the time required for 1) thorough research and planning on the part of the GMTBI to design and specify each health care provider's needs, and 2) thorough review and approval of the plans and facility eligibility on the part of USAC has been significant. Based upon that history, it is clear that without an extension of the funding, all steps for bidding, approval, and funding commitment cannot be completed.

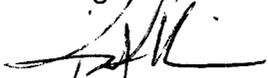
There are two critical RHCPP-USAC steps that are required prior to live and operational connectivity for each phase:

- 1) USAC approval of the phase network design and HCP eligibility prior to bidding being able to begin on the request for proposal, which is referred to as the 465 package (Attachment D, RFP02-Network Buildout-Phase 3).
- 2) USAC verification of the contracts and costs prior to receiving USAC Funding Commitment, referred to as the 466 package.

For our third and final Phase 3, we will not complete the second step before the current RHCPP deadline of June 30, 2011. A one-year extension will allow the GMTBI to progress through the second step of the USAC process carefully and thoroughly in order to successfully leverage the investment being made with the network infrastructure designed within the first two phases.

We are encouraged by the work we have accomplished within this project and recognize the benefits that all three of our RFP's will bring to further telehealth throughout Minnesota. **Please accept our request for a timely and affirmative response for a one year deadline extension to June 30, 2012.**

Regards,



Katherine Wilkes

Project Coordinator

Greater Minnesota Telehealth Broadband Initiative (GMTBI)

kwilkes@sisunet.org

GMTBI Project Table: Network Development Phases 1-3

Phase	Healthcare Connections Count	Spring 2011 Phase Status	Project Steps and Timeline	100% Connectivity Cost	85% USAC Funding Approval
1	4 connections	Connections live and operational	RFP00 bidding: June, 2009 Funding Commitment approved: July 2010 Live and operational: July 2010	\$547,273	\$465,182
2	14 connections	466 package complete- USAC funding approved	RFP01 bidding: Sept, 2010 Funding commitment approved: April 2011 Live and operational expected: June 2011	\$2,125,804	\$1,806,933
3	126 connections	465 package in process - RFP posting pending	RFP02 bidding expected: June, 2011 Funding Commitment expected: Feb. 2012 Live and operational expected: Spring – Summer 2012	\$3,679,863	\$3,127,884
TOTAL	144 connections			\$6,352,940	\$5,400,000

February 18, 2011

Sharon Gillett
Chief
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Re: Docket No. 02-06: GMTBI Request for a one year extension of the RHCPP

Attention: Ms. Gillett

The Greater Minnesota Telehealth Broadband Initiative (GMTBI) steering committee would like to request a one year extension of the June 30, 2011, deadline for filing of WC Docket No. 02-60, Rural Health Care Pilot Program (RHCPP) Forms 465 and 466.

Our project, GMTBI, has been working diligently since the beginning of the RHCPP to form a broadband healthcare network across the state of Minnesota. After 3.5 years of effort we are very close to succeeding. Our primary core and two of four POP locations, forming most of our network backbone, will be operational this spring 2011. The third phase of our project is very large and includes the objective of building out our network to nearly 150 termination points. HCP participants include CAH's, rural health clinics, community mental health facilities, data centers, and larger regional hospitals. We are optimistic that having these facilities participating on the GMTBI network will be synergistic for creative and patient-centric use of the network to improve healthcare in Minnesota.

Regarding our third and final phase, we are confident about completing the initial steps of the 465 and posting the RFP for bidding prior to the 6/30/2011 deadline. However, we are greatly concerned that we will not be able to complete the 466 process that is necessary to receive funding commitment through USAC prior to the deadline. A one-year extension will allow us to progress through the third RFP process carefully and thoroughly in order to successfully leverage the investment being made with the network infrastructure designed within the first two phases.

The reasons why we have not been able to complete the design, approval, and implementation of our three phases thus far are numerous and complex. Much of the complexity is built into the collaborative and project nature of this large project. Additionally, without a formal structure that was provided funding support, it has been a struggle for both the Project Coordinator and Steering Committee organizations to commit resources to the effort. Lastly, the degree of interaction needed with the participating HCP's for education and technology assessment required for the build-out of our network has been overwhelming. We did not foresee the amount of time and

energy it would take to get the HCP's to understand, imagine, and commit to the GMTBI network. We have found that the incentive of an 85% subsidy was enough to get their attention but it has taken much more energy to have the participants focus on and understand the overall objective and requirements for participation.

We are encouraged by the work we have accomplished within this project and recognize the benefits that all three of our RFP's will bring to further telehealth throughout Minnesota. Please accept our request for a one year deadline extension to 6/30/2012. We are very confident that we will be able to complete the build-out of our final project phase within this year.

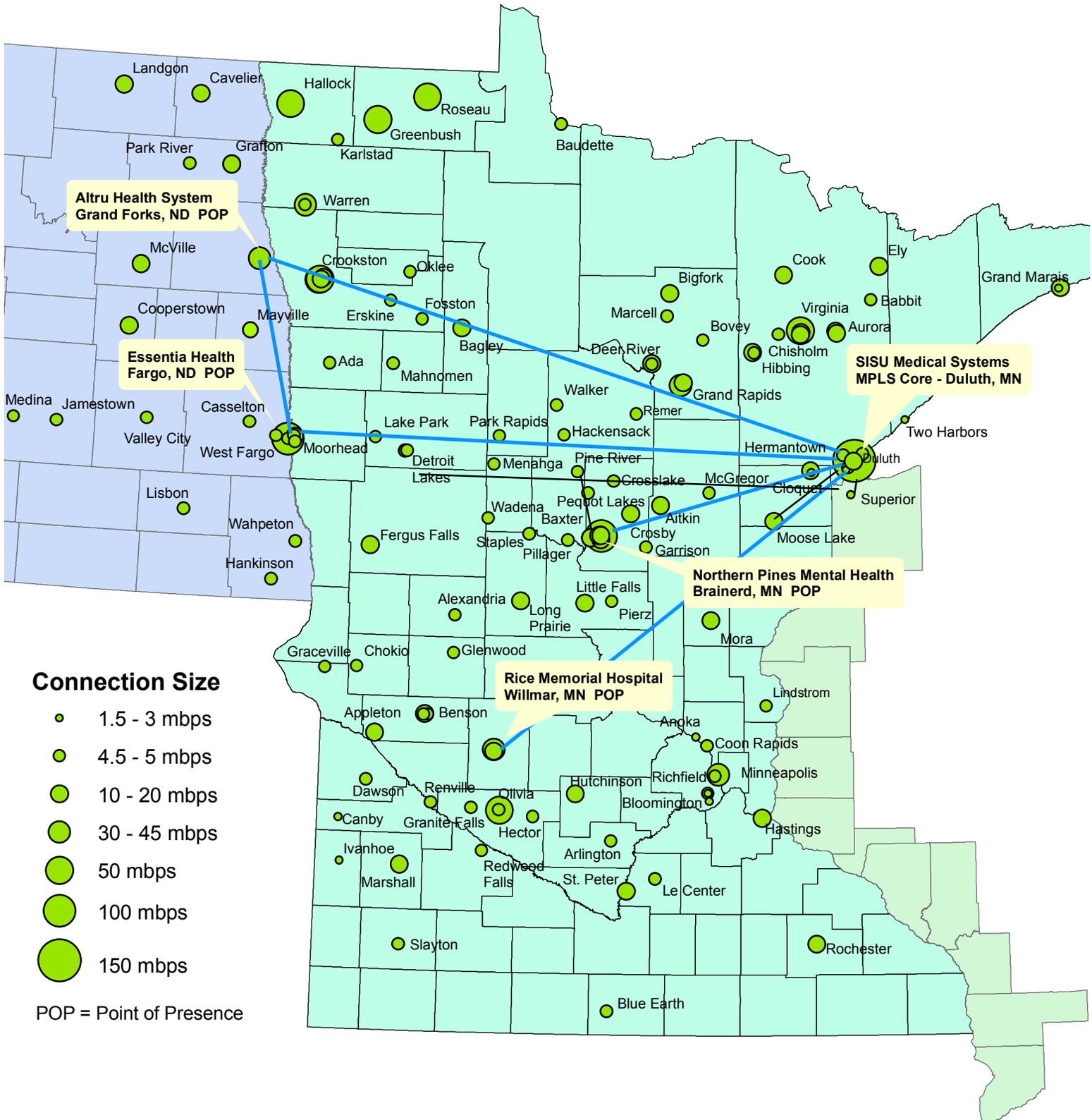
Regards,



Katherine Wilkes
Project Coordinator
Greater Minnesota Telehealth Broadband Initiative (GMTBI)
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Attachment A

Greater MN Telehealth/e-Health Broadband Network (MPLS "Cloud")



APPENDIX B

GMTBI Final Listing of Participating Organizations

Phase	Healthcare Provider (HCP)	Address	City	HCP State	ZIP Code	County	HCP Eligible Entity Type	HCP Services Description
1	Johnson Memorial Health Services	1282 Walnut Street	Dawson	MN	56232	Lac qui Parle	5: Not-for-profit hospital	1.544 Mbps (T-1) to Willmar POP
1	Murray County Medical Center	2042 Juniper Avenue	Slayton	MN	56172	Murray	5: Not-for-profit hospital	1.544 Mbps (T-1) to Willmar POP
1	Rice Memorial Hospital	301 Becker Ave SW	Willmar	MN	56201	Kandiyohi	5: Not-for-profit hospital	45 Mbps (T-3 / DS-3) to Duluth Central Core
1	Sibley Medical Center	601 W. Chandler Street	Arlington	MN	55307	Sibley	5: Not-for-profit hospital	1.544 Mbps (T-1) to Willmar POP
2	North Region Health Alliance	115 S. Main St., Suite 4	Warren	MN	56762	Marshall	0: HCP Data Center	45 Mbps Internet
2	SISU Medical Systems	5 W. 1st St., Suite 200	Duluth	MN	55802	St. Louis	0: HCP Data Center	150M - PDN/Internet, 150 Mbps Internet, 50 Mbps Ethernet, 150 Mbps Ethernet Diverse East and West Paths
2	Fraser Child and Family Center Anoka	2829 Verndale Ave	Anoka	MN	55303	Anoka	4: Community mental health center	1.5 Mbps T1 to Minneapolis Location
2	Fraser Child and Family Center Bloomington	1801 American Blvd, Suite 1	Bloomington	MN	55425	Hennepin	4: Community mental health center	1.5 Mbps T1 to Minneapolis Location
2	Fraser Child and Family Center Minneapolis	3333 University Ave S.E.	Minneapolis	MN	55414	Hennepin	4: Community mental health center	4.5 Mbps bonded T1s to Duluth Central Core
2	Human Development Center 1401 Duluth	1401 E. 1st St.	Duluth	MN	55085	St. Louis	4: Community mental health center	20 Mbps Ethernet to Duluth Central Hub
2	Human Development Center 1500 Duluth	1500 N 34th St.	Superior	WI	54880	Douglas	4: Community mental health center	10 Mbps Ethernet to 1401 Location
2	Human Development Center 1730 Duluth	1730 E. Superior St.	Duluth	MN	55805	St. Louis	4: Community mental health center	20 Mbps Ethernet to 1401 Location
2	Human Development Center 1807	1807 W. Hwy 61	Grand Marais	MN	55604	Cook	4: Community mental health center	1.5 Mbps Ethernet to 1401 Location
2	Human Development Center 215 Duluth	215 N. Central Ave.	Duluth	MN	55807	St. Louis	4: Community mental health center	1.5 Mbps Ethernet to 1401 Location
2	Human Development Center 40 Duluth	40 11th St.	Cloquet	MN	55720	Car	4: Community mental health center	3 Mbps Ethernet to 1401 Location
2	Human Development Center 629 Duluth	629 1st Ave.	Two Harbors	MN	55616	Lake	4: Community mental health center	1.5 Mbps Ethernet to 1401 Location
2	Altru Health Systems	1200 S. Columbia Rd	Grand Forks	ND	58201	Grand Forks	5: Not-for-profit hospital	10Mbps - PDN to North Region Health Network, 50 Mbps Ethernet

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2	Fairview Health Services	400 Roosevelt St SE	Minneapolis	MN	55413	Hennepin	5: Not-for-profit hospital	50 Mbps Ethernet to Duluth Central Core
3	Essentia Duluth Family Practice Clinic	330 North 8th Avenue East	Duluth	MN	55807	St. Louis	10: Urban Health Clinic	10 Mbps Ethernet to Duluth Central Core
3	Essentia Duluth Lakeside Clinic	4621 E Superior Street	Duluth	MN	55804	St. Louis	10: Urban Health Clinic	5 Mbps Ethernet to Duluth Central Core
3	Essentia Duluth West Clinic	4212 Grand Avenue	Duluth	MN	55807	St. Louis	10: Urban Health Clinic	5 Mbps Ethernet to Duluth Central Core
3	Essentia Fargo 32nd Avenue Clinic	3000 32nd Avenue	Fargo	ND	58103	Cass	10: Urban Health Clinic	100 Mbps Ethernet to Duluth Central Core & 100 Mbps to Grand Forks pop
3	Essentia Fargo South University Clinic	1702 South University Drive	Fargo	ND	58103	Cass	10: Urban Health Clinic	100 Mbps Ethernet to Fargo Pop
3	Essentia Fargo West Acres Clinic	3902 13th Avenue South	Fargo	ND	58103	Cass	10: Urban Health Clinic	5 Mbps Ethernet to Fargo Pop
3	Essentia Hermantown Clinic	4855 W Arrowhead Road	Hermantown	MN	55811	St. Louis	10: Urban Health Clinic	5 Mbps Ethernet to Central Core
3	Essentia Jamestown Clinic	401 Third Street SE	Jamestown	ND	58401	Stutsman	10: Urban Health Clinic	5 Mbps Ethernet to Fargo Pop
3	Essentia Moorhead Clinic	420 Center Avenue	Moorhead	MN	56560	Clay	10: Urban Health Clinic	5Mbps Ethernet to Fargo Pop
3	Essentia St. Joseph's Brainerd Clinic	523 North 3rd Street	Brainerd	MN	56401	Crow Wing	10: Urban Health Clinic	10 Mbps Ethernet to Brainerd Pop
3	Essentia St. Joseph's Brainerd Lakes Urology Clinic	1903 S 6th Street, Suite 3	Brainerd	MN	56401	Crow Wing	10: Urban Health Clinic	10 Mbps Ethernet to Brainerd Pop
3	Essentia West Fargo Clinic	1401 13th Avenue East	West Fargo	ND	58078	Cass	10: Urban Health Clinic	5 Mbps Ethernet to Fargo Pop
3	Migrant Health Grafton Clinic	701 W 6th Street	Grafton	ND	58237	Walsh	2: Community health center or health center providing health to migrants	5 Mbps or 10 Mbps Ethernet to Grandforks Pop
3	Migrant Health Moorhead Clinic	810 4th Ave S, Suite 101	Moorhead	MN	56560	Clay	2: Community health center or health center providing health to migrants	5Mbps or 10Mbps Ethernet to Fargo or Duluth Central Core

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3	Migrant Health Rochester Clinic	1926 Collegeview Rd SE	Rochester	MN	55904	Olmsted	2: Community health center or health center providing health to migrants	5 Mbps or 10 Mbps Ethernet to Duluth Central Core
3	Migrant Health Willmar Clinic	130 SE Willmar Avenue	Willmar	MN	56201	Kandiyohi	2: Community health center or health center providing health to migrants	5 Mbps or 10 Mbps Ethernet to Willmar Pop
3	Children's Mental Health Services Grand Rapids	35382 US Hwy 2 West	Grand Rapids	MN	55774	Itasca	4: Community mental health center	20 Mbps Ethernet to Duluth Central Core
3	Family Life Center Coon Rapids	1930 Coon Rapids Blvd.	Coon Rapids	MN	55433	Anoka	4: Community mental health center	5 Mbps Ethernet to Duluth Central Core
3	Family Life Center Lindstrom	13265 Sylvan Ave.	Lindstrom	MN	55045	Chisago	4: Community mental health center	5 Mbps Ethernet to Duluth Central Core
3	Lakeland Mental Health Center Alexandria	700 Cedar St. Suite 154	Alexandria	MN	56308	Douglas	4: Community mental health center	5 Mbps or 10 Mbps Ethernet to Fergus Falls Location
3	Lakeland Mental Health Center Detroit Lakes	928 8th St.	Detroit Lakes	MN	56501	Becker	4: Community mental health center	5 Mbps or 10 Mbps Ethernet to Fergus Falls Location
3	Lakeland Mental Health Center Fergus Falls	21333 County Hwy 1	Fergus Falls	MN	56537	Otter Tail	4: Community mental health center	20 Mbps Ethernet to Fargo Pop
3	Lakeland Mental Health Center Glennwood	100 17th Ave NW Suite 2	Glenwood	MN	56334	Pope	4: Community mental health center	5 Mbps or 10 Mbps Ethernet to Fergus Falls Location
3	Lakeland Mental Health Center Moorhead	1010 32nd Ave S.	Moorhead	MN	56560	Clay	4: Community mental health center	5 Mbps or 10 Mbps Ethernet to Fergus Falls Location
3	Northern Pines Mental Health Center Baxter Edgewood	14385 Edgewood Drive	Baxter	MN	56425	Crow Wing	4: Community mental health center	10 Mbps Ethernet to Maple Street Location
3	Northern Pines Mental Health Center Brainerd 520	520 NW 5th St.	Brainerd	MN	56401	Crow Wing	4: Community mental health center	10 Mbps Ethernet to Maple Street Location
3	Northern Pines Mental Health Center Brainerd 606	606 Front Street	Brainerd	MN	56401	Crow Wing	4: Community mental health center	10 Mbps Ethernet to Maple Street Location

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3	Northern Pines Mental Health Center Brainerd 823	823 Maple Street	Brainerd	MN	56401	Crow Wing	4: Community mental health center	50 Mbps or 100 Mbps Ethernet to Central Hub
3	Northern Pines Mental Health Center Little Falls	1906 5th Ave. SE	Little Falls	MN	56345	Morrison	4: Community mental health center	10 Mbps Ethernet to Maple Street Location
3	Northern Pines Mental Health Center Long Prairie	16 9th St SE	Long Prairie	MN	56347	Todd	4: Community mental health center	5 Mbps or 10 MBps Ethernet to Maple Street Location
3	Northern Pines Mental Health Center Staples	616 4th St NE	Staples	MN	56479	Todd	4: Community mental health center	5 Mbps Ethernet to Maple Street Location
3	Northern Pines Mental Health Center Wadena	415 Jefferson St N	Wadena	MN	56482	Wadena	4: Community mental health center	5 Mbps Ethernet to Maple Street Location
3	Northwestern Mental Health Center Crookston Bruce	603 Bruce St.	Crookston	MN	56716	Polk	4: Community mental health center	50 Mbps Ethernet to Grand Forks pop
3	Range Mental Health Center Hibbing	3203 W. 3rd Ave	Hibbing	MN	55792	St. Louis	4: Community mental health center	10 Mbps Ethernet to 624 S 13th St.
3	Range Mental Health Center Virginia 504	504 1st St. N.	Virginia	MN	55792	St. Louis	4: Community mental health center	10 Mbps Ethernet to 624 S 13th St
3	Range Mental Health Center Virginia 624	624 S. 13th St.	Virginia	MN	55792	St. Louis	4: Community mental health center	50 Mbps Ethernet to Central Hub
3	Range Mental Health Center Virginia 626	626 13th St. S	Virginia	MN	55792	St. Louis	4: Community mental health center	10 Mbps Ethernet to 624 S 13th St.
3	Western Mental Health Center Canby	112 St. Olaf Ave. S.	Canby	MN	56220	Yellow Medicine	4: Community mental health center	1.5 Mbps to Marshall Office
3	Western Mental Health Center Granite Falls	818 Prentice St.	Granite Falls	MN	56241	Chippewa	4: Community mental health center	5 Mbps Ethernet to Marshall Office
3	Western Mental Health Center Ivanhoe	336 E. George St.	Ivanhoe	MN	56142	Lincoln	4: Community mental health center	1.5 Mbps to Marshall Office
3	Western Mental Health Center Marshall	1212 E. College Dr.	Marshall	MN	56258	Marshall	4: Community mental health center	20 Mbps Ethernet to Duluth Central Core
3	Western Mental Health Center Redwood Falls	205 S. Mill St	Redwood Falls	MN	56283	Redwood	4: Community mental health center	5 Mbps Ethernet to Marshall Office
3	Fraser Child and Family Center Richfield	2400 W. 64th St	Richfield	MN	55423	Hennepin	4: Community mental health center	5 Mbps Ethernet
3	Human Development Center Duluth 31 West	31 W. 1st St.	Duluth	MN	55085	Duluth	4: Community mental health center	5 Mbps to HDC 1401 Location
3	Human Development Center Duluth 315 North	315 N 2nd Ave W.	Duluth	MN	55085	Duluth	4: Community mental health center	5 Mbps to HDC 1401 Location

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3	Northwestern Mental Health Center Crookston Gretchen	100 Gretchen Lane	Crookston	MN	56716	Polk	4: Community mental health center	20 Mbps Internet Connection (20 Mbps up/20 Mbps down)
3	Northwestern Mental Health Center Crookston Robert	101 W. Robert St.	Crookston	MN	56716	Polk	4: Community mental health center	20 Mbps Internet Connection (20 Mbps up/20 Mbps down)
3	Altru Health Systems	1200 S. Columbia Rd	Grand Forks	ND	58201	Grand Forks	5: Not-for-profit hospital	100 Mbps Ethernet to Duluth Central Core
3	Appleton Area Health Services	30 S. Behl St.	Appleton	MN	56208	Swift	5: Not-for-profit hospital	5 Mbps or 10 Mbps Ethernet to Willmar Pop
3	Bigfork Valley Big Fork Hospital	258 Pine Tree Drive	Bigfork	MN	56628	Itasca	5: Not-for-profit hospital	10 Mbps Ethernet to Duluth Central Core
3	Cavalier County Memorial Hospital	909 2nd St.	Landgon	ND	58429	Cavalier	5: Not-for-profit hospital	10 Mbps Ethernet to Grand Forks
3	Clearwater Health Services	203 4th St. NW	Bagley	MN	56621	Clearwater	5: Not-for-profit hospital	5 Mbps or 10 Mbps to Grand Forks pop
3	Cloquet Community Memorial Hospital	512 Skyline Blvd.	Cloquet	MN	55720	Carlton	5: Not-for-profit hospital	10 Mbps Ethernet to Duluth Central Core
3	Cook County North Shore Hospital & Care Center	515 5th Ave. W.	Grand Marais	MN	55604	Cook	5: Not-for-profit hospital	10 Mbps Ethernet to Duluth Central Core
3	Cook Hospital	10 Fifth Street SE	Cook	MN	55723	St. Louis	5: Not-for-profit hospital	10 Mbps Ethernet to Duluth Central Core
3	Cooperstown Medical Center	1200 Roberts Ave. NE	Cooperstown	ND	58425	Griggs	5: Not-for-profit hospital	20 Mbps Ethernet to Grand Forks
3	Cuyuna Regional Medical Center	320 East Main Street	Crosby	MN	56441	Crow Wing	5: Not-for-profit hospital	20 Mbps or 45 Mbps Ethernet to Duluth Central Core
3	Deer River HealthCare Center	1002 Comstock Drive	Deer River	MN	56636	Itasca	5: Not-for-profit hospital	10 Mbps Ethernet to Duluth Central Core
3	Ely-Bloomenson Community Hospital	328 West Conan Street	Ely	MN	55731	St. Louis	5: Not-for-profit hospital	10 Mbps Ethernet to Duluth Central Core
3	Essentia Ada Bridges Medical Center	201 9th Street West	Ada	MN	56510	Norman	5: Not-for-profit hospital	5 Mbps Ethernet to Fargo Pop
3	Essentia Brainerd Medical Center	2024 South 6th Street	Brainerd	MN	56401	Crow Wing	5: Not-for-profit hospital	10 Mbps Ethernet to Brainerd Pop

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3	Essentia Fosston First Care Medical Services	900 Hilligoss Blvd. SE	Fosston	MN	56542	Polk	5: Not-for-profit hospital	5 Mbps Ethernet to Grandforks Pop
3	Essentia Graceville Holy Trinity Hospital	115 W 2nd Street	Graceville	MN	56240	Big Stone	5: Not-for-profit hospital	5 Mbps Ethernet to Willmar Pop
3	Essentia St. Mary's Innovis Health	1027 Washington Avenue	Detroit Lakes	MN	56501	Becker	5: Not-for-profit hospital	5 Mbps Ethernet to Fargo Pop
3	First Care Health Center	115 Vivian St., PO Box 1	Park River	ND	58270	Walsh	5: Not-for-profit hospital	1.5 Mbps T1 or 5Mbps Ethernet to Grandforks Pop
3	FirstLight Hospital	301 South Hwy 65	Mora	MN	55051	Kanabec	5: Not-for-profit hospital	20 Mbps Ethernet to Duluth Central Core
3	Grand Itasca Clinic and Hospital	1601 Golf Course Rd.	Grand Rapids	MN	55744	Itasca	5: Not-for-profit hospital	30 Mbps to Duluth Central Core
3	Hutchinson Area Health Care	1095 Highway 15 South	Hutchinson	MN	55350	McCleod	5: Not-for-profit hospital	10 Mbps to Duluth Central Core
3	Kittson Memorial Healthcare Center	1010 S. Birch, PO Box 700	Hallock	MN	56728	Kittson	5: Not-for-profit hospital	45 Mbps or 50Mbps Ethernet to Grandforks Pop
3	LakeWood Health Center Baudette	600 Main Ave. S.	Baudette	MN	56623	Lake of the Woods	5: Not-for-profit hospital	5 Mbps Ethernet to Duluth Central Core or Grandforks Pop
3	Mercy Hospital & Healthcare Center	710 South Kenwood Ave	Moose Lake	MN	55767	Carlton	5: Not-for-profit hospital	10 Mbps Ethernet to Duluth Central Hub
3	Nelson County Health System Hospital & Clinic	200 N. Main St.	McVile	ND	58254	Nelson	5: Not-for-profit hospital	5 Mbps or 10 Mbps Ethernet to Grandforks Pop
3	North Valley Health Center	109 S. Minnesota St.	Warren	MN	56762	Marshall	5: Not-for-profit hospital	5 Mbps Ethernet to Grandforks Pop
3	Pembina County Memorial Hospital	301 Mountain St. E., PO Box 380	Cavalier	ND	58220	Cavalier	5: Not-for-profit hospital	10 Mbps Ethernet to Grand Forks Pop
3	Regina Medical Center	1175 Nininger Road	Hastings	MN	55033	Dakota	5: Not-for-profit hospital	10 Mbps Ethernet to Central Core
3	Renville County Hospital	611 E. Fairview Ave.	Olivia	MN	56277	Renville	5: Not-for-profit hospital	50 Mbps Ethernet to Central Hub or Willmar Pop
3	River's Edge St. Peter Hospital	1900 N. Sunrise Dr.	St. Peter	MN	56082	Nicollet	5: Not-for-profit hospital	10 Mbps or 20 Mbps Ethernet to Duluth Central Core
3	Riverview Healthcare Association	323 S. Minnesota St.	Crookston	MN	56716	Polk	5: Not-for-profit hospital	50 Mbps Ethernet to Grandforks Pop or Duluth Central Core

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3	Riverwood Healthcare Center	200 Bunker Hill Drive	Aitkin	MN	56431	Aitkin	5: Not-for-profit hospital	10 Mbps or 20 Mbps Ethernet to Duluth Central Core
3	Swift County-Benson Hospital	1815 Wisconsin Avenue	Benson	MN	56215	Swift	5: Not-for-profit hospital	10 Mbps Ethernet to Duluth Central Core
3	Union Hospital	42 6th Ave. SE	Mayville	ND	58257	Trail	5: Not-for-profit hospital	5 Mbps or 10MB to Grandforks pop
3	United Hospital District	515 South Moore Street	Blue Earth	MN	56013	Blue Earth	5: Not-for-profit hospital	4.5 Mbps Bonded T1s to Duluth Central Core
3	Unity Medical Center	164 W. 13th St.	Grafton	ND	58237	Walsh	5: Not-for-profit hospital	10 Mbps or 20 Mbps to Grandforks Pop
3	Bigfork Valley Balsam Clinic	41150 Scenic Hwy. 7	Bovey	MN	55709	Itasca	6: Rural health clinic	5 Mbps Ethernet to Duluth Central Core
3	Bigfork Valley Marcell Clinic	49103 St. Hwy 38, P.O. Box 74	Marcell	MN	56657	Itasca	6: Rural health clinic	5 Mbps Ethernet to Central Hub
3	Essentia Aurora Clinic	405 W 3rd Avenue N	Aurora	MN	55705	St. Louis	6: Rural health clinic	10 Mbps Ethernet to Duluth Central Core
3	Essentia Aurora Northern Pines Clinic	5211 Highway 110	Aurora	MN	55705	St. Louis	6: Rural health clinic	10 Mbps Ethernet to Duluth Central Core
3	Essentia Babbitt Clinic	45 N Drive	Babbitt	MN	55706	St. Louis	6: Rural health clinic	5 Mbps Ethernet to Duluth Central Core
3	Essentia Baxter Convenient Care	14133 Edgewood Drive	Baxter	MN	56401	Crow Wing	6: Rural health clinic	10 Mbps Ethernet to Brainerd Pop
3	Essentia Casselton Clinic	5 Ninth Avenue N	Casselton	ND	58012	Cass	6: Rural health clinic	5 Mbps Ethernet to Fargo Pop
3	Essentia Chisholm Clinic	400 NW First Street	Chisholm	MN	55719	St. Louis	6: Rural health clinic	5 Mbps Ethernet to Duluth Central Core
3	Essentia Chokio Clinic	101 Main Street	Chokio	MN	56221	Stevens	6: Rural health clinic	5 Mbps Ethernet to Willmar Pop
3	Essentia Deer River Clinic	1025 10th Avenue NE	Deer River	MN	56636	Itasca	6: Rural health clinic	5 Mbps Ethernet to Duluth Central Core
3	Essentia Erskine Clinic	101 Vance Ave.	Erskine	MN	56535	Polk	6: Rural health clinic	5 Mbps Ethernet to Grandforks Pop
3	Essentia Hackensack Clinic	110 3rd Street South	Hackensack	MN	56452	Cass	6: Rural health clinic	5 Mbps Ethernet to Brainerd Pop
3	Essentia Hankinson Clinic	501 Main Avenue South	Hankinson	ND	58041	Richland	6: Rural health clinic	5 Mbps Ethernet to Fargo Pop
3	Essentia Hibbing Clinic	730 E 34th St	Hibbing	MN	55746	St. Louis	6: Rural health clinic	5 Mbps Ethernet to Duluth Central Core

APPENDIX B

GMTBI Final Listing of Participating Organizations

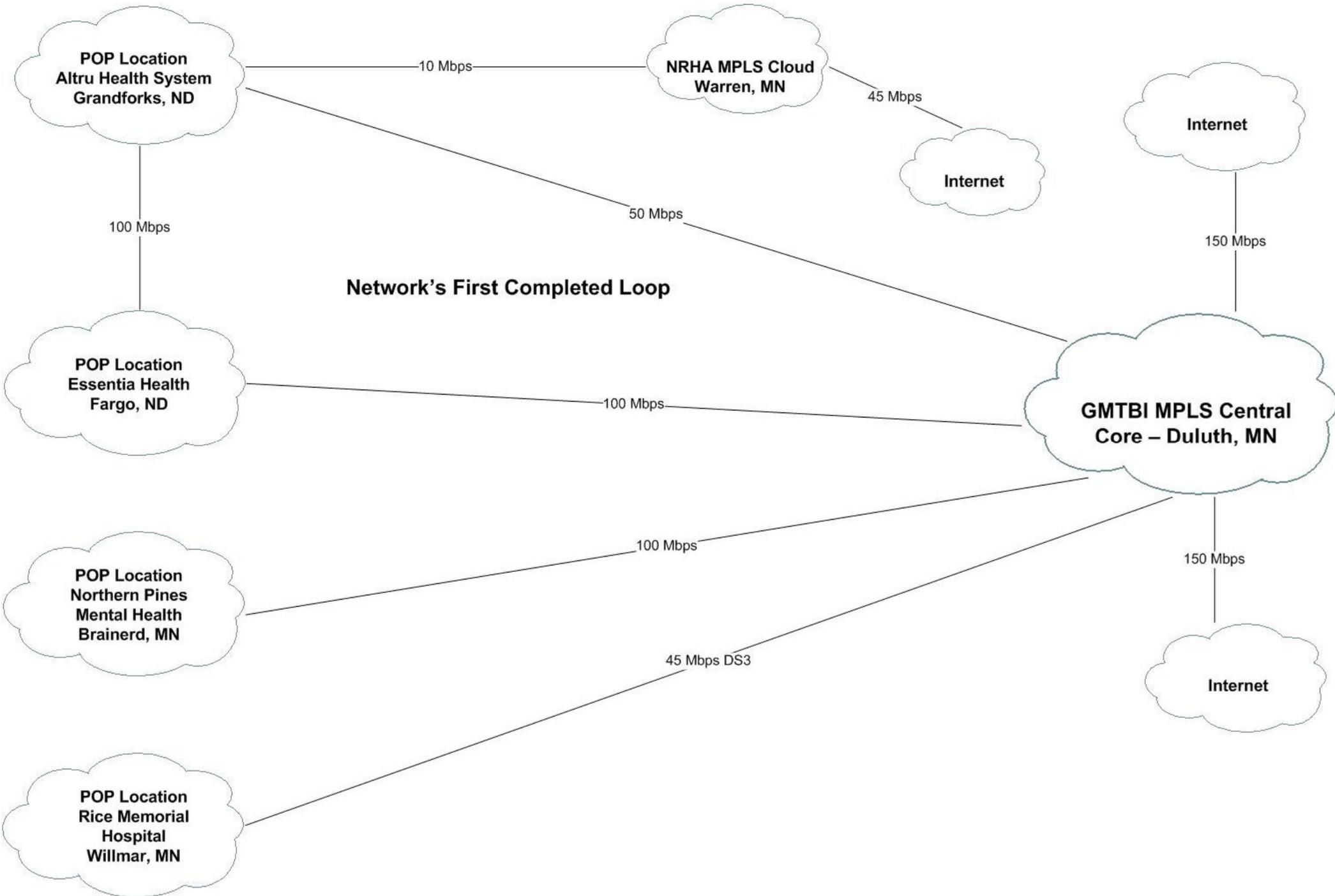
Phase	Healthcare Provider (HCP)	Address	City	HCP State	ZIP Code	County	HCP Eligible Entity Type	HCP Services Description
3	Essentia Lisbon Clinic	819 Main Street	Lisbon	ND	58054	Ransom	6: Rural health clinic	5 Mbps Ethernet to Fargo Pop
3	Essentia Mahnommen Clinic	117 North Main Street	Mahnomen	MN	56557	Mahnomen	6: Rural health clinic	5 Mbps Ethernet to Fargo Pop
3	Essentia Medina Clinic	600 Water Street East	Medina	ND	58467	Stutsman	6: Rural health clinic	5 Mbps Ethernet to Fargo Pop
3	Essentia Menahga Clinic	212 Aspen Avenue NE, P.O. Box 190	Menahga	MN	56464	Wadena	6: Rural health clinic	5 Mbps Ethernet to Fargo or Brainerd Pop
3	Essentia Oklee Clinic	Governor's St. & 3rd Ave	Oklee	MN	56742	Red Lake	6: Rural health clinic	5 Mbps Ethernet to Grandforks Pop
3	Essentia Park Rapids Clinic	705 Pleasant Avenue	Park Rapids	MN	56470	Hubbard	6: Rural health clinic	5 Mbps Ethernet to Fargo Pop
3	Essentia Remer Clinic	9 Birch Street	Remer	MN	56672	Cass	6: Rural health clinic	5 Mbps Ethernet to Duluth Central Core
3	Essentia St. Joseph's Crosslake Clinic	35205 County Road 3 P.O. Box 470	Crosslake	MN	56442	Crow Wing	6: Rural health clinic	5 Mbps Ethernet to Brainerd Pop
3	Essentia St. Joseph's Pequot Lakes Clinic	4317 West Woodman St, P.O. Box 356	Pequot Lakes	MN	56472	Crow Wing	6: Rural health clinic	5 Mbps Ethernet to Brainerd Pop
3	Essentia St. Joseph's Pierz Clinic	221 North Main, P.O. Box 216	Pierz	MN	56364	Morrison	6: Rural health clinic	5 Mbps Ethernet to Brainerd Pop or Duluth Central Core
3	Essentia St. Joseph's Pillager Clinic	680 Pillsbury St. No.	Pillager	MN	56473	Cass	6: Rural health clinic	5 Mbps Ethernet to Brainerd Pop
3	Essentia St. Joseph's Pine River Clinic	415 Barclay Avenue, P.O. Box 88	Pine River	MN	56474	Cass	6: Rural health clinic	5 Mbps Ethernet to Brainerd Pop
3	Essentia St. Mary's Frazee Clinic	125 Frazee Street East	Detroit Lakes	MN	56504	Becker	6: Rural health clinic	5Mbps Ethernet to Fargo Pop
3	Essentia St. Mary's Lake Park Clinic	1005 First Street	Lake Park	MN	56554	Becker	6: Rural health clinic	5 Mbps Ethernet to Fargo Pop
3	Essentia Valley City Clinic	132 Fourth Avenue Northeast	Valley City	ND	58072	Barnes	6: Rural health clinic	5 Mbps Ethernet to Fargo Pop
3	Essentia Wahpeton Clinic	275 South 11th Street	Wahpeton	ND	58075	Richland	6: Rural health clinic	5 Mbps Ethernet to Fargo Pop
3	Essentia Walker Clinic	110 D Michigan Ave NW	Walker	MN	56484	Cass	6: Rural health clinic	5 Mbps Ethernet to Fargo or Brainerd Pop
3	Kittson Memorial Healthcare Karlstad Clinic	1st St S. AT Roosevelt Ave W.	Karlstad	MN	56732	Kittson	6: Rural health clinic	5 Mbps Ethernet to Hallock

APPENDIX B

GMTBI Final Listing of Participating Organizations

Phase	Healthcare Provider (HCP)	Address	City	HCP State	ZIP Code	County	HCP Eligible Entity Type	HCP Services Description
3	Lifecare Medical Center Greenbush	19120 200th Street	Greenbush	MN	56726	Roseau	6: Rural health clinic	20 Mbps or 50Mbps Ethernet to Lifecare Medical Center - Roseau
3	Lifecare Medical Center Roseau	715 Delmore Dr.	Roseau	MN	56751	Roseau	6: Rural health clinic	50 Mbps or 100 Mbps Ethernet to Grandforks Pop
3	Renville County Hector Clinic	131 Birch Avenue	Hector	MN	55342	Renville	6: Rural health clinic	5 Mbps Ethernet to Olivia hospital location
3	Renville County Olivia Clinic	600 East Park	Olivia	MN	56277	Renville	6: Rural health clinic	5 Mbps Ethernet to Olivia hospital location
3	Renville County Renville Clinic	420 North Main St.	Renville	MN	56284	Renville	6: Rural health clinic	5 Mbps Ethernet to Olivia hospital location
3	River's Edge Le Center Clinic	200 East Bowler Street	Le Center	MN	56057	Le Seuer	6: Rural health clinic	5 Mbps Ethernet to River's Edge Hospital
3	Riverwood Healthcare Center Garrison Clinic	27278 State Hwy. 18	Garrison	MN	56450	Crow Wing	6: Rural health clinic	5 Mbps Ethernet to Duluth Central Core
3	Riverwood Healthcare Center McGregor Clinic	2 East Center Avenue	McGregor	MN	55760	Aitkin	6: Rural health clinic	5 Mbps Ethernet to Duluth Central Core
3	Swift County-Benson Hospital Counseling Associates	640 Atlantic Avenue	Benson	MN	56215	Swift	6: Rural health clinic	5 Mbs Ethernet to Swift County Hospital
3	Swift County-Benson Hospital Home Health	2125 Minnesota Avenue	Benson	MN	56215	Swift	6: Rural health clinic	5 Mbps Ethernet to Swift County Hospital

ATTACHMENT C



REQUEST FOR PROPOSAL

“Greater Minnesota Telehealth Broadband Initiative”

RURAL HEALTHCARE PILOT PROJECT
FUNDING YEAR 2008 & 2009

RFP02

NETWORK INFRASTRUCTURE
PROCUREMENT

VENDOR LETTER OF INTENT TO BID

Greater Minnesota Telehealth Broadband Initiative

COMPANY: _____

REPRESENTATIVE: _____

Address: _____

Telephone: _____

Fax: _____

Email: _____

SPIN Number: _____

**Authorized
Signature:** _____

Date: _____

This letter of intent may be faxed or emailed to the following:
218-529-7920 or gmtbi@sisunet.org

Written Questions should be emailed in word format to:
gmtbi@sisunet.org

i. General Information

i.1. Introduction. SISU Medical Systems, on behalf of the **Greater Minnesota Telehealth Broadband Initiative (GMTBI)** is seeking bids for network infrastructure hardware, connectivity, and network management hardware/software to construct a robust, secure, sustainable and interconnected broadband network that links healthcare providers throughout the state of Minnesota and parts of North Dakota. The network infrastructure will increase utilization of information services among public and non-profit healthcare providers serving rural communities across Minnesota and North Dakota.

i.2. The GMTBI is a consortium of five healthcare networks representing approximately 120 healthcare facilities. The Greater Minnesota Telehealth Broadband Initiative will utilize funding provided by the Federal Communications Commission (FCC) under the Commission's order 07-198 ('Rural Healthcare Support Mechanism') of 19 November 2007, selecting participants for the Rural Healthcare Pilot Program, as well as matching and participatory funds as defined in the Order and provided by the Partners and their member sites and organizations.

i.3. SISU Medical Systems has been designated as the centrally managed hub for the GMTBI. The SISU Medical Systems data center will house hardware and connections to aggregate the flow of data throughout the GMTBI state wide network.

i.4. Bidders are asked to provide proposals based on the technical information and hardware listed in this document to construct a centrally managed hub.

i.5. Connectivity – Price is to provide connectivity and carrier services for Centrally Managed Hub and each site separately as defined in this RFP.

i.6. Hardware – Price is to provide hardware, installation, and testing for all locations defined in this RFP.

i.7. The RFP process will allow The Greater Minnesota Telehealth Broadband Initiative to receive competitive offers for network infrastructure from telephone companies, hardware distributors and manufacturers, and others. These competitive offers will be judged by the GMTBI according to the criteria set forth in Section 2.0 of this document.

1.0 Administrative and Procedural Information

1.1. The Rural Health Care Pilot Program (RHCPP) of the Universal Service Fund, which is administered by the Universal Service Administrative Company (USAC), is a support program authorized by Congress and designed by the Federal Communications Commission (FCC) to encourage the development of rural broadband networks to provide advanced healthcare telecommunications capabilities and services to rural health care providers (HCPs).

1.2. **Notice:** This project is subject to the USAC Procurement Rules. Vendors must meet all USAC requirements. The Greater Minnesota Broadband Telehealth Initiative (GMTBI) will submit a USAC Form 465 to USAC to be posted on the USAC website. More information on bidding and posting rules can be found at <http://www.lifelinesupport.org/rhc-pilot-program/vendors>.

1.3. The following considerations apply to the proposal submission / review process:

1.3.1. Bidders are expected to raise any questions, noted errors, discrepancies, ambiguities, exceptions, additions, or deficiencies they have concerning this bid in writing or email to:

SISU Medical Systems
c/o Greater Minnesota Telehealth Broadband Initiative
Attn: Jeff Plunkett
5 West 1st Street
Suite 200
Duluth, MN 55802
Phone: 218-740-6769
Fax: 218-529-7920
Email: GMTBI@sisunet.org

Questions and answers will be emailed to all bidders throughout the bidding process. Bidders should include an email contact for notification of any Q & A and clarification.

Any communications with the GMTBI Rural Healthcare Pilot Program staff members other than via the method described above should not be considered authoritative, are not binding and may be disavowed without notice or explanation.

1.3.2. **ADDENDUM OR SUPPLEMENT TO REQUEST FOR PROPOSAL:** In the event that it becomes necessary to revise, amend, add to or delete any part of this RFP, an addendum will be faxed and/or emailed if deemed appropriate to each Bidder who received or requested the original RFP. It is the responsibility of Bidders, prior to bid date, to inquire as to addenda issues and to ensure their bid

reflects any and all changes. SISU will maintain a register of holders of this RFP. Any party receiving this RFP in a fashion other than by receipt from SISU should inform SISU of its interest to ensure receipt of any addenda. All addenda must be acknowledged on the Proposal page and copies of the signed addenda.

1.3.3. All Bidders intending to submit a response to this RFP must submit a Letter of Intent to the Project Contact (see Section 1.3.1) no later than 5:00 p.m. CST on the twenty-first day following the posting of this request on the USAC website. In the Letter, the Bidder must provide the following information: 1) Name of the primary contact person, 2) Mailing address, 3) Telephone number, and 4) Email address. Only Bidders that complete and return a Letter of Intent will receive answers to clarifying questions, addenda, or suggestions to this RFP.

1.3.4. Bid proposals must be received by the project contact at SISU Medical Systems/GMTBI office no later than midnight the forty-sixth day after the posting date by 5:00 p.m. Accordingly, no bid proposals will be accepted after the date and time specified. A late bid proposal will be returned unopened to the Bidder.

1.3.5. No bid proposals will be accepted by telephone, electronic mail, or facsimile. The proposal receipt deadline is for actual receipt in the SISU Medical Systems/GMTBI office as identified below. Delivery, whether via postal mail or other service, must be arranged to ensure arrival before the deadline set forth above.

1.3.6. All Bidders must complete and sign the RFP Checklist which is provided on the last page.

1.3.7. Bid proposals must be mailed or otherwise physically delivered to the following address:

**SISU Medical Systems
c/o Greater Minnesota Telehealth Broadband Initiative
Attn: Jeff Plunkett
5 West 1st street
Suite 200
Duluth, MN 55802**

It is strongly suggested that certified delivery services be used to verify the receipt of bids by GMTBI.

1.3.8. Bid proposals will be opened at 9:00 CST on the forty-sixth day after the posting of this RFP. The bid proposals and the evaluation documents created by the GMTBI will remain confidential until all compliant bid proposals are submitted in response to this RFP and the selection process is complete.

1.4. Ownership of Equipment

All equipment becomes the property of the participating entities once it is delivered and accepted by the GMTBI.

1.5. Caution to Bidders

The GMTBI reserves the right to accept or reject in part or its entirety, any bid received as a result of this RFP if it is in the best interest of the GMTBI to do so. Bids may be rejected for one or more, but not limited to, the following reasons:

- A. Failure to complete and return Letter of Intent
- B. Failure of the bidder to adhere to one or more of the provisions established in this RFP.
- C. Failure of the bidder to submit bid(s) on or before the deadline established the GMTBI.
- D. Failure of the bidder to adhere to generally acceptable ethical and professional principles during the bidding and selection process required by the FCC Rural Health Care Pilot Project.
- E. Failure of the bidder to respond to a request for oral or written demonstrations or presentations.
- F. Failure of the bidder to comply with the intent of any statement in this document which has the word “must”, “should”, “will”, or “shall” in it.
- G. Failure of the bidder to have an authorizing officer sign the bid.
- H. Failure of the bidder to complete RFP Checklist and return with bid proposal.

1.6. Bid Proposal General Requirements

1.6.1. Failure to comply with or supply any and all information requested to accompany bid proposals may be cause for rejection of the proposal as non-compliant.

1.6.2. Vendors must submit one (1) signed original and three (3) printed copies of their bid response and email and/or place on CD with bid response in Microsoft Word format and PDF.

1.6.3. Bidders must be an eligible service provider under the Universal Service Fund Rural Health Care Pilot Program. Bidders must have a Service Provider Identification Number (SPIN) prior to the submission of the bid. A SPIN is a unique number assigned to each service provider by the Universal Service Administrative Company (USAC). See <http://www.usac.org/rhc/service-providers/step01/obtain-service-provider-id.aspx> for further information.

1.6.4. Bidders must be able to follow and complete invoicing procedures established by the Rural Health Care Pilot Program. Under the Pilot Program, a service provider must submit invoices to USAC for the support amounts credited to the billed entity for each health care provider location using a standard template designed by USAC. See <http://www.usac.org/rhc/service-providers/step08/> for further information.

1.6.5. All bid proposals must be valid for a period of 90 days from the deadline specified for submission proposals.

1.6.6. By submitting a bid proposal the vendor agrees to the terms and conditions contained within this RFP.

1.6.7. By submitting a bid proposal the Bidder agrees not to have any contact with locations listed in the RFP outside of this bidding process regarding what is being proposed unless authorized by SISU/GMTBI. This is to ensure that all Bidders follow the competitive bidding process through this RFP and that all site locations listed remain eligible to receive GMTBI FCC Rural Health Care Pilot Project funding.

1.6.8. Unless otherwise specifically stated in the RFP, all specifications and requirements constitute minimum requirements. All bids must meet or exceed the stated specifications or requirements. All equipment and supplies offered must be new, of current production, and available for marketing by the manufacturer unless the RFP clearly specifies that used, reconditioned, or remanufactured equipment and supplies may be offered. Unless specifically stated and allowed in the General Information and Administrative Information, all pricing submitted in the response to this RFP is firm and fixed.

1.6.9. Whenever the name of a manufacture, trade name, brand name, or model and catalog numbers followed by the words “or equal” or “approved equal” are used in the specifications it is for the purpose of item identification and to establish standards of quality, style, and features. Bids on equivalent items of the same quality are invited. However, to receive consideration, such equivalent bids must be accompanied by sufficient descriptive literature and/or specifications to clearly identify the item and provide for competitive evaluation. The GMTBI will be the sole judge of equality and suitability. Whenever the name of a manufacturer is mentioned in the specifications and the words “or equal” do not

follow, it shall be deemed that the article furnished is that designated by the specifications. The GMTBI reserves the right to return, at the contractor's expense, all items that are furnished which are not acceptable as equals to items specified and contractor agrees to replace such items with satisfactory items at the original bid price.

1.6.10. Modifications or erasures made before bid submission must be initialed in ink by the person signing the bid. Bids, once submitted, may be modified in writing prior to the exact date and time set for the bid closing. Any such modifications shall be prepared on company letterhead, signed by a duly authorized representative, and state the new document supersedes or modifies the prior bid. The modification must be submitted in a sealed envelope marked "Bid Modification" and clearly identifying the RFP title and closing time and date. Bids may not be modified after the bid closing time and date. Telephone and facsimile modifications are not permitted.

1.6.11. Bids may be withdrawn in writing on company letterhead, signed by a duly authorized representative and received at the designated location prior to the date and time set for bid closing.

1.7. Reservation

This RFP does not commit the GMTBI to award a contract, to pay costs incurred in the preparation of a bid in response to this request, or to procure or contract for services or supplies. The GMTBI reserves the right to accept or reject (in its entirety), any bid received as a result of the RFP, if it is in the best interest of the GMTBI to do so.

1.8. Pre-Bid Conference and Letter of Intent to Bid From Vendors

A non-mandatory, pre-bid conference will be held for each prospective bidder if requested. Requests can be sent to gmtbi@sisunet.org

Vendors planning to submit a bid as a result of this RFP are required to complete and submit the Letter of Intent to Bid Form before a bid is submitted. Letters of intent must contain the vendor's SPIN number. Bidder Representative must be fully aware of the FCC Rural Health Care Pilot Project, requirements and processes involved.

1.9. Sample Contracts

All bidders are requested to supply a sample of their standard contract(s) and maintenance contract(s) with their bid. Any terms and conditions submitted by the vendor must reflect all the conditions of the RFP and bidder's response.

1.10. Oral Statements and Commitments

Bidder must clearly understand that any verbal representation made or assumed to be made during any oral discussion held between Bidder's representatives and the GMTBI is not binding. Only the information issued in writing and added to the Request for Proposal specifications filed by an official written addendum are binding.

2.0 Proposal Evaluation

2.0.1. Proposal and Contract Terms

2.0.1. Vendor's response to the RFP demonstrates a clear and complete understanding of the goals of the overall project.

2.0.2. Implementation timeline must begin no later than 20 days after the winning proposal is selected. Bid proposals must include a project plan and timeline detailing milestones and overall schedule.

2.0.3. Connectivity services – 3 year duration and option for 5 years.

2.0.4. Hardware service and maintenance – 3 year duration and option for 5 years.

2.0.5. Service Level Agreements and/or Performance guarantees, including uptime and response time guarantees.

2.0.6. Proposed system testing and acceptance provisions will be required on all bid proposals. The GMTBI/SISU reserve the right to work in concert with vendors to develop appropriate test and acceptance criteria for a specific installation or configuration, to be defined and accepted by both parties prior to contract initiation.

2.0.7. Vendor's response to RFP must acknowledge that all or portions of their bid may be selected based on several factors. When only portions of bids are selected, prices will not change for the Buyers on services and/or products that are selected.

2.0.8. Any contract resulting from this RFP will contain specific deliverable item acceptance provisions.

2.0.9. Bid proposals will contain acknowledgement of, and provisions for providing, USAC invoicing requirements and formats. Bidder will conform to invoicing procedures and processes as promulgated by USAC.

2.0.10. Bidder agrees to provide a project manager or other individual who will be the primary contact for all dealings with the GMTBI.

2.0.11. The GMTBI may select the bidder(s) which, in its opinion, has made the bid that is the most cost effective as defined by the FCC Rural Health Care Pilot Program. The GMTBI reserves the right to waive minor irregularities. Donations or gifts to the GMTBI/SISU, will not be considered in the evaluation of bids. The GMTBI reserves the right to reject any or all bids, in whole or in part, and is not necessarily bound to accept the lowest cost bid if that bid is contrary to the best interests of the GMTBI. The GMTBI may cancel this Request for Proposal or reject any or all bids in whole or in part.

2.1 Design Compatibility

2.1.1. Connectivity Services

2.1.1.1. Bidder's proposal accounts for existing network design within the network to which its bid applies, and does not require re-grooming or reconfiguration of circuits or transports not directly impacted by the project.

2.1.1.2. Bidders are required to state their installation process of circuits, testing from end-to-end including through multi-vendor circuits. Vendors are also required to supply documentation of a tested circuit to the GMTBI before any hardware from the GMTBI is connected to it. This testing is required in order to verify that all circuits will fully work.

2.1.1.3. Cross Connect:

The GMTBI is seeking to avoid cross connection prices. Any pricing for cross connects should be included in the RFP response and include both recurring and non-recurring costs for the initial GMTBI network described. It is possible that after the initial build, the GMTBI will require additional cross-connects as additional health care entities join the network. At locations where these options are available, the Vendor is asked to describe any cross-connect policies and all related cross-connect non-recurring and recurring costs in its RFP response. Ideally, Vendors should build cross-connect costs into the initial purchase arrangement and reduce recurring long-term cross-connect costs.

2.1.2. Hardware Components

2.1.2.1 Bidder's proposal for hardware meets the stated requirements of the RFP in all respects without substitution or alteration of required functionality. The proposal must assure that MPLS routing protocol is enabled on all devices. The hardware must be capable of being monitored by the network management software listed in this RFP.

2.1.2.2. Bidder's proposal accounts for existing hardware components and network logical and physical topology, and does not impose restrictions or reconfiguration requirements to accommodate specifications of requested equipment that do not meet RFP requirements.

2.1.2.3. Bidder's proposal includes maintenance, support contract options for 3 & 5 years and installation.

2.1.2.4. Bidder's proposal includes only those installation and configuration services specifically requested in the RFP.

2.1.2.5. Hardware configurations are based on Cisco Systems products, but Cisco-brand hardware is not required. Proposals offering alternate brands and configurations are acceptable, with due consideration of the requirements for compatibility and interoperability.

2.1.2.6. Bidders are required to supply detailed information on hardware when non-Cisco products are being proposed.

2.1.2.7. Bidders must include reasons when not giving a bid on complete hardware that is listed in this RFP. This is to ensure that hardware that is proposed will meet the configuration requirements of the network.

2.1.3. Billing and Administration

2.1.3.1. The vendor is expected to operate and maintain a billing and payment function capable of interfacing with all parties involved and with USAC. The Vendor may need to establish a unique Billing Account Number for the GMTBI, to comply with USAC needs.

2.1.3.2. The Vendor agrees that upon successful testing of new facilities, the GMTBI will advise the Vendor that the service has been accepted. The GMTBI and the Vendor will mutually agree on a process to constitute the acceptance of service definition. Billing for new service must begin

only after the GMTBI provides the Vendor with the acceptance of service notice.

2.1.4. Cancellation/Termination

The GMTBI and participating site may terminate any contract resulting from this RFP immediately at any time the Vendor fails to carry out its responsibilities or to make substantial progress under the terms of this RFP and resulting contract. The GMTBI and participating site shall provide the Vendor with advance notice of performance conditions which are endangering the contract's continuation. If after such notice the Vendor fails to remedy the conditions contained in the notice, within the time period contained in the notice, the GMTBI and participating site shall issue the Vendor an order to cease any and all work immediately.

The GMTBI and participating site shall be obligated only for services rendered prior to the date of the notice of termination. The contract may also be terminated by the GMTBI and participating site with thirty (30) days prior notice. If the Vendor defaults in its agreement to provide personnel, equipment and or services to the GMTBI and participating site's satisfaction, or in any other way fails to provide service in accordance with the contract terms, the GMTBI and participating site may take whatever action it deems necessary to provide alternate services and may, at its option, immediately cancel this contract with verbal and written notice. Except for such cancellation for cause by the GMTBI and participating site, either the GMTBI and participating site or the Vendor may terminate this contract by giving 90 days advance written notice to the other party.

2.1.5. Vendor Invoicing and Payment Process

The Vendor shall submit invoices, in arrears, as outlined by the guidelines of the FCC/USAC, (15% participant and 85% USAC) at the address on the face of the purchase order labeled "Invoice To" pursuant to the terms of the contract.

The vendor invoicing process described in this section is mandated by USAC and its various administrative requirements.

Questions regarding the invoicing process should be directed to gmtbi@sisunet.org. At a minimum, every vendor invoice submitted to each participating site must contain the Vendor invoice number; Vendor invoice date; Vendor Billing Account Number (BAN); and Total invoice amount.

2.1.5.1 Network Cost Worksheet (NCW)

During the invoicing process USAC mandates use of the Network Cost Worksheet (NCW) to process the charges. This RFP incorporates some elements of the NCW. The GMTBI will complete the necessary conversions to the NCW format for submission to USAC, but the vendor's cooperation will be required.

2.1.5.2. Allocation of Costs

The vendor must allocate all costs associated with the project to specific HCP participants. Any specific cost attributable to multiple participants must be allocated on a reasonable and demonstrable basis. Any cost that does not directly support the health care network cannot be funded by the RHCPP project.

The vendor must use the GMTBI Site Number listed in section "1.4" in all invoicing transactions. Each and every identifiable one-time (non-recurring) cost for hardware, circuits and to construct the health care network must be allocated to the participating sites and described using the following fields:

- A "Non-recurring" tag
- Identification of the participating HCP site that will receive the equipment or to whom the network construction costs are being allocated. Use the participating site number shown in section "1.4"
- General description of the item. The description of each hardware item must include manufacture and model number.
- Component, e.g., fiber, network switch, router, T-1, bandwidth fee, connection fee, install fee, etc.
- The number of items
- The cost per item
- The total cost for this line item, i.e., the "number of items" times "the cost per item."

2.1.5.3. Funding Sources

The vendor will be reimbursed from two funding sources: the FCC (via USAC and the GMTBI). The FCC (through USAC/GMTBI) will reimburse up to 85% of the costs. The participating entities will cover the remaining amount (15%).

2.1.5.4. Five-step Invoicing Process

The vendor will invoice FCC/USAC/Participating Sites and GMTBI using the following process:

1. Vendor Invoices HCP and Collects 15% Payment from HCP

The vendor invoices the participating sites and collect the HCP's 15% share of the invoice. The HCP pays 15% of the recurring circuit cost and non-recurring hardware costs that have been approved through the USAC RHCPP 466 package and listed within the Network Cost Worksheet. Any other fees will be fully paid 100% by the HCP such as freight or universal service fees.

2. HCP Notifies GMTBI of Payment to Vendor and Supplies Confirmation of Payment

The HCP provides to GMTBI a copy of the vendor invoice that confirms the 15% payment to the vendor.

3. GMTBI creates and Certifies USAC Invoice and Submits Invoice to the Vendor

- I. The GMTBI will review the HCP invoice, proof of HCP's 15% payments, and confirm invoiced item with the Network Cost Worksheet.
- II. The GMTBI will create the USAC invoice, certify the invoice, and send USAC Invoice to vendor.
- III. GMTBI will provide invoice supporting documents to USAC

4. Vendor Certifies Invoice and Submits to USAC

The vendor will certify the invoice the GMTBI has prepared and submit to USAC for payment.

5. USAC Approves Invoice and Release Remaining 85% Payment to Vendor

USAC will review the invoice submitted by the vendor and the supporting documentation submitted by GMTBI and then pay the vendor. USAC currently pays invoices twice a month.

2.2. Testing and Acceptance

2.2.1. Prior to the GMTBI finalizing the purchase of services, the Vendor will test the links to certify acceptance.

2.2.2. Vendors must describe the process for conducting the tests and the types of results produced.

2.3. Backbone Network

2.3.1. For purposes of network connectivity, Vendors responding to this RFP may assume the following network POP access locations:

- 301 Becker Ave NW, Wilmar, MN 56201 (Rice Memorial Hospital)
- 1200 S. Columbia Rd. Grandforks, ND 58201 (Altru Health Systems)
- 3000 32nd Avenue, Fargo, ND 58103 (Essentia Health)
- 823 Maple Street, Brainerd, MN 56401 (Northern Pines Mental Health)

2.3.2. Central Core Location

- 5 West 1st Street Suite 200, Duluth, MN 55802 (SISU Medical Systems)

2.3.3. Other Points of Interest

- 1401 East First Street, Duluth, MN 55805 (Human Development Center)
- 2400 West 64th Street, Minneapolis, MN 55423 (Fraser Child & Family Center)
- North Region Health Alliance (Zayo MPLS network)

NOTE to Vendors: Vendors are not required to use the hub locations listed above. Vendors may choose to use alternate hub locations. What is required, however, is that proposals must link the end user location(s) to one or more of the above hub locations, for connection to the GMTBI network, as appropriate for the vendor's response. Vendors are encouraged to develop and submit responses that are appropriate for the vendor's capabilities.

2.4. Provider / Vendor Qualifications

2.4.1 Bidder possesses the ability to provide proposed products in the manner and within the timeline specified in the RFP, as determined by the GMTBI, based on:

2.4.1.1. Describe the prior experience and qualifications related to accomplishing the work as requested. Bidder must provide a current Service Provider Identification Number (SPIN) in their proposal.

2.4.1.2. References: provide a list of references that identifies services provided for similar work. Include telephone numbers and mailing addresses of individuals who can attest to the Bidder's experience and qualifications of the services requested.

2.4.1.3. Reputation in the industry. Provide background regarding the Bidder, including: length of time in business, other activities performed by the Bidder, and number of individuals on staff (including owners, partners, and employees).

2.4.1.4. Past performance in the experience of one or more of the GMTBI and SISU Medical Systems partners (if applicable).

2.4.1.5. Objective qualifications of key staff and proposed project personnel.

2.4.1.6. Bidder's proposal includes only those installation and configuration services specifically requested in the RFP.

2.5. Cost

2.5.1. Bid proposals must identify all costs associated with the proposed solution, including installation, configuration, maintenance, shipping and any recurring costs.

Specifically, for connectivity proposals

2.5.2.1 Implementation fees, including one-time connection or provisioning charges, hardware costs, and cabling cost for desired termination point.

2.5.2.2. Monthly recurring charges amortized over the period of the proposed contract, for transmission at the proposed bandwidth, port charges, taxes, fees, and assessments. Must also include any cross connect fees to connect higher facility in the Centrally Managed Hub. Any cross connects would be made at the Central Office – Melrose located in downtown Duluth, MN.

2.5.2.3. Contract termination provisions, including specific penalties, if any, for early termination by GMTBI/SISU Medical Systems. Specifically, an opt-out option if the grant funding, or USF program is terminated, is stipulated.

Hardware Proposals Must Include:

2.5.2.4. Purchase price for each unit. Bundled pricing may be cited, but individual components must be identified and detailed pricing provided.

2.5.2.4. One time purchase cost, including 3 years maintenance for all hardware.

2.5.2.6. Shipping costs for each unit or shipment.

2.5.2.7. Design, engineering, configuration and installation charges.

2.5.2.8. Taxes, permits, fees, licenses.

Installation Proposals Must Include:

2.5.2.9. Purchase price for each unit. Bundled pricing may be cited, but individual components must be identified and detailed pricing provided.

2.5.2.10. Shipping cost for each unit or shipment.

2.5.2.11. Design, engineering, configuration and installation charges.

2.5.2.12. Taxes, permits, fees, licenses.

2.5.2.13. Maintenance and/or support charges for the proposed contract period.

2.5.2.14. All subcontracting shall be pre-approved by the GMTBI. The Prime Contractor/Bidder shall be responsible for all subcontractor(s) work and payment. The GMTBI/SISU Medical Systems 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.

2.5.2.15. All costs may not qualify for RHCPP funding. It is critical that accurate, detailed cost information should be provided for all portions of the bid proposal. Any non-eligible costs must be provided separate from all eligible costs.

2.6. Evaluation and Decision

2.6.1. The selection will be based on all factors indicated in this section, and may not go to the lowest Bidder if cost is outweighed by a combination of other features in the winning vendor's bid.

2.6.2. The GMTBI/SISU Medical Systems reserves the right to select all or portions of bids based on a number of factors that is in the best interest of the Buyer.

2.6.3. Any clerical errors, apparent on its face, may be corrected by the Buyer before contract award. Upon discovering an apparent clerical error, the Buyer

shall contact the bidder and request clarification of the intended bid. The correction shall be incorporated in the notice of award. The GMTBI/SISU Medical Systems reserve the right to request clarification of any portion of the bidder's response in order to verify the intent. The bidder is cautioned, however, that its response may be subject to acceptance or rejection without clarification.

2.6.4. The GMTBI/SISU Medical Systems reserves the right to select bid proposals which, in the sole judgment of the GMTBI/SISU Medical Systems, most nearly conforms to the specifications set forth herein.

2.6.5. The GMTBI/SISU Medical Systems reserve the right to waive any and all issues of form or presentation in considering bid presentations for acceptance or rejection, if, in the sole opinion of the GMTBI/SISU Medical Systems, such a waiver is in the best interests of the project.

2.6.6. The GMTBI/SISU Medical Systems is not responsible for any costs incurred by a vendor related to the preparation or delivery of the bid proposal, or any other activities carried out by the vendor as it relates to this RFP.

2.6.7. Changes in applicable laws and rules may affect the award process or any resulting contracts. Vendors are responsible for ascertaining pertinent legal requirements and restrictions. Vendors are encouraged to visit the official Federal websites pertaining to the Pilot Project, at <http://www.lifelinesupport.org/rhc-pilot-program/> and <http://www.fcc.gov/cgb/rural/rhcp.html>.

2.6.8. The selection decisions made by the GMTBI/SISU Medical Systems and reported to USAC under this RFP are final, and appeals or re-submissions will not be considered.

3.0. Site, Routing, and Technical Information

3.1. The project requires broadband connectivity, site-based network routing hardware and network management tools.

3.2. All hardware bids solicited under this RFP are for new hardware only. No bid may include any change, updating, or "re-organizing" of any hardware currently located at the centrally managed hub location (SISU Medical Systems). Bids failing to meet these requirements will be rejected without further consideration.

3.3. The specification sheet provides site physical and contact information, as well as hardware requirements.

3.4. Connectivity Requirements

3.4.1. Bidders can propose different network designs but must meet all of requirements listed in this section. Additional documentation must be supplied to support proposed designs

3.4.2. Latency: Any connection between the GMTBI centrally managed hub and the Central Office that provides the multiple termination points must support Ping times (packet round-trip times) of 20 milliseconds or less through to far end are desirable. Connections with ping times in excess of 30 milliseconds would result in unacceptable responsiveness. Average and maximum ping time should be specified. Network architecture features that will minimize latency should be identified.

3.4.3. Jitter: Jitter shall be appropriate for high-definition video transport not exceeding 20 milliseconds.

3.4.4. Packet Loss: there shall be no packet loss over any typical 60-minute period. Average packet loss for any month shall be less than 0.5%.

3.4.5. Reliability: Reliability is extremely important since the connections will support real-time patient care. Network architectural features that will increase reliability should be identified. Error-free uptime shall be 99.999%.

3.4.6. Support: The quality of support available when problems arise will be considered. Bidders should describe their help desk procedures, capabilities and response to issues when requirements are not being met.

3.4.7. Refer to **Appendix A** for Connectivity Requirements.

3.4.8. **Hardware Requirements**

3.4.8.1. All hardware listed is dependent on the types of circuits that will be terminating to the main router, LAN-to-LAN VPN connections, and network security needed for data.

3.4.8.2. All hardware must be compatible with existing network and main core of the network.

3.4.8.3. General information for the hardware is specified in Appendix A: Hardware Specifications. These configurations are based on Cisco Systems products, but Cisco brand hardware is not required. Proposals offering alternate brands and configurations are acceptable, with due consideration of requirements for compatibility and interoperability.

3.4.8.4. Equipment must support the following

- EIGRP routing
- Hardware-assisted NAT and GRE
- Private VLANs, VRF and MPLS
- Quality of service (QOS)
- Redundancy features of HSRP, VRRP, EtherChannel and GLBP
- Support Management features of NetFlow, RSPAN, ERSPAN and embedded Event Manager (EEM).
- Multicast features of PIM sparse mode, dense mode, and bi-directional PIM

3.4.8.5. Refer to **Appendix B** for complete hardware requirements

3.4.8. Hardware Programming Requirements

3.4.8.1. Programming and configuration of core routers must utilize MPLS to allow for complete segregation of participating sites subnets. Only cross traffic occurs on firewalls between segregation points. The MPLS configuration must also allow for QOS, VLANs, VRFs NAT, MPLS-VPN and etc.

Appendix A: Connectivity Requirements – Refer to Section 2.3

ID	HCP Organization	Phone	HCP Address	HCP City	HCP State	HCP Zip	Requested Connection
1	Appleton Area Health Services	320-289-2422	30 S. Behl St.	Appleton	MN	56208	5 Mbps or 10 Mbps Ethernet to Willmar Pop
2	Altru Health System	701-780-5000	1200 South Columbia Road	Grand Forks	ND	58206	100 Mbps Ethernet to Duluth Central Core
3	Bigfork Valley Hospital & Clinics	218-743-3177	258 Pine Tree Drive	Bigfork	MN	56628	10 Mbps Ethernet to Duluth Central Core
4	Bigfork Valley Balsam Clinic	218-245-2610	41150 Scenic Hwy. 7	Bovey	MN	55709	5 Mbps Ethernet to Duluth Central Core
5	Bigfork Valley Marcell Clinic	218-832-3026	49103 St. Hwy 38, P.O. Box 74	Marcell	MN	56657	5 Mbps Ethernet to Central Hub
6	Cavalier County Memorial Hospital	701-256-6100	909 2nd St.	Langdon	ND	58249	10 Mbps Ethernet to Grand Forks
7	Children's Mental Health Services	218-327-4886	35382 US Hwy 2 West	Grand Rapids	MN	55774	20 Mbps Ethernet to Duluth Central Core
8	Clearwater Health Services	218-694-3528	203 4th St. NW	Bagley	MN	56621	5 Mbps or 10 Mbps to Grand Forks pop
9	Cloquet Community Memorial Hospital	218-879-4641	512 Skyline Blvd.	Cloquet	MN	55720	10 Mbps Ethernet to Duluth Central Core
10	Cook County North Shore Hospital & Care Center	218-387-3040	P.O Box 10	Grand Marais	MN	55604	10 Mbps Ethernet to Duluth Central Core
11	Cook Hospital	218-666-5945	10 Fifth Street SE	Cook	MN	55723	10 Mbps Ethernet to Duluth Central Core
12	Cooperstown Medical Center	701-797-2221	1200 Roberts Ave. NE	Cooperstown	ND	58425	20 Mbps Ethernet to Grand Forks
13	Cuyuna Regional Medical Center	218-546-7000	320 East Main Street	Crosby	MN	56441	20 Mbps or 45 Mbps Ethernet to Duluth Central Core
14	Deer River HealthCare Center	218-246-2900	1002 Comstock Drive	Deer River	MN	56636	10 Mbps Ethernet to Duluth Central Core
15	Ely-Bloomenson Community Hospital	218-365-3271	328 West Conan Street	Ely	MN	55731	10 Mbps Ethernet to Duluth Central Core

16	Essentia Health - Ada (Bridges Medical Center)	218-784-5500	201 9th Street West	Ada	MN	56510	5 Mbps Ethernet to Fargo Pop
17	Essentia Health - Aurora Clinic	218-229-3311	405 W 3rd Avenue N	Aurora	MN	55705	10 Mbps Ethernet to Duluth Central Core
18	Essentia Health – Northern Pines Aurora	218-229-2211	5211 Highway 110	Aurora	MN	55705	10 Mbps Ethernet to Duluth Central Core
19	Essentia Health - Babbitt Clinic	218-827-2176	45 N Drive	Babbitt	MN	55706	5 Mbps Ethernet to Duluth Central Core
20	Essentia Health – Baxter Convenient Care	218-454-5802	14133 Edgewood Drive	Baxter	MN	56401	10 Mbps Ethernet to Brainerd Pop
21	Essentia Health - Brainerd Medical Center	218-828-7100	2024 South 6th Street	Brainerd	MN	56401	10 Mbps Ethernet to Brainerd Pop
22	Essentia Health – St. Joseph's Brainerd Clinic	218-829-2861	523 North 3rd Street	Brainerd	MN	56401	10 Mbps Ethernet to Brainerd Pop
23	Essentia Health – St. Joseph's Lakes Urology Clinic	218-828-1418	1903 S 6th Street, Suite 3	Brainerd	MN	56401	10 Mbps Ethernet to Brainerd Pop
24	Essentia Health - Casselton Clinic	701-347-4445	5 Ninth Avenue N	Casselton	ND	58012	5 Mbps Ethernet to Fargo Pop
25	Essentia Health - Chisholm Clinic	218-254-3391	400 NW First Street	Chisholm	MN	55719	5 Mbps Ethernet to Duluth Central Core
26	Essentia Health - Chokio Clinic	320-324-7500	101 Main Street	Chokio	MN	56221	5 Mbps Ethernet to Willmar Pop
27	Essentia Health – Joseph's Clinic Crosslake St.	218-692-1010	35205 County Road 3 P.O. Box 470	Crosslake	MN	56442	5 Mbps Ethernet to Brainerd Pop
28	Essentia Health - Deer River Clinic	218-246-8275	1025 10th Avenue NE	Deer River	MN	56636	5 Mbps Ethernet to Duluth Central Core
29	Essentia Health – St. Mary's Innovis Hospital	218-847-5611	1027 Washington Avenue	Detroit Lakes	MN	56501	5 Mbps Ethernet to Fargo Pop
30	Essentia Health – Duluth Lakeside Clinic	218-786-3550	4621 E Superior Street	Duluth	MN	55804	5 Mbps Ethernet to Duluth Central Core
31	Essentia Health - Duluth West Clinic	218-786-3500	4212 Grand Avenue	Duluth	MN	55807	5 Mbps Ethernet to Duluth Central Core

32	Essentia Health – Duluth Family Practice	218-723-1112	330 North 8 th Avenue East	Duluth	MN	55807	10 Mbps Ethernet to Duluth Central Core
33	Essentia Health - Erskine Clinic	218-687-2051	101 Vance Ave.	Erskine	MN	56535	5 Mbps Ethernet to Grandforks Pop
34	Essentia Health – Fargo 32nd Avenue Clinic	701-364-8000	3000 32nd Avenue	Fargo	ND	58103	100 Mbps Ethernet to Duluth Central Core & 100 Mbps to Grand Forks pop
35	Essentia Health - Fosston First Care Medical Services	218-435-1441	900 Hilligoss Blvd. SE	Fosston	MN	56542	5 Mbps Ethernet to Grandforks Pop
36	Essentia Health –St. Mary's Frazee Clinic	218-844-2300	125 Frazee Street East	Detroit Lakes	MN	56504	5Mbps Ethernet to Fargo Pop
37	Essentia Health – Graceville Holy Trinity Hospital	320-748-7243	115 W 2nd Street	Graceville	MN	56240	5 Mbps Ethernet to Willmar Pop
38	Essentia Health - Hackensack Clinic	218-675-5044	110 3rd Street South	Hackensack	MN	56452	5 Mbps Ethernet to Brainerd Pop
39	Essentia Health - Hankinson Clinic	701-242-7118	501 Main Avenue South	Hankinson	ND	58041	5 Mbps Ethernet to Fargo Pop
40	Essentia Health - Hermantown Clinic	218-786-3540	4855 W Arrowhead Road	Hermantown	MN	55811	5 Mbps Ethernet to Central Core
41	Essentia Health - Hibbing Clinic	218-262-3425	730 E 34th St	Hibbing	MN	55746	5 Mbps Ethernet to Duluth Central Core
42	Essentia Health - Jamestown Clinic	701-253-5300	401 Third Street SE	Jamestown	ND	58401	5 Mbps Ethernet to Fargo Pop
43	Essentia Health –St. Mary's Lake Park Clinic	218-238-5901	1005 First Street	Lake Park	MN	56554	5 Mbps Ethernet to Fargo Pop
44	Essentia Health - Lisbon Clinic	701-683-4134	819 Main Street	Lisbon	ND	58054	5 Mbps Ethernet to Fargo Pop
45	Essentia Health - Mahnomon Clinic	218-936-5616	117 North Main Street	Mahnomon	MN	56557	5 Mbps Ethernet to Fargo Pop
46	Essentia Health - Medina Clinic	701-486-3550	600 Water Street East	Medina	ND	58467	5 Mbps Ethernet to Fargo Pop

47	Essentia Health - Menahga Clinic	218-564-4131	212 Aspen Avenue NE, P.O. Box 190	Menahga	MN	56464	5 Mbps Ethernet to Fargo or Brainerd Pop
48	Essentia Health - Moorhead Clinic	701-364-6800	420 Center Avenue	Moorhead	MN	56560	5Mbps Ethernet to Fargo Pop
49	Essentia Health - Oklee Clinic	218-796-4525	Governor's St. & 3rd Ave	Oklee	MN	56742	5 Mbps Ethernet to Grandforks Pop
50	Essentia Health - Park Rapids Clinic	218-732-2800	705 Pleasant Avenue	Park Rapids	MN	56470	5 Mbps Ethernet to Fargo Pop
51	Essentia Health – Fargo South University Clinic	701-364-3300	1702 South University Drive	Fargo	ND	58103	100 Mbps Ethernet to Fargo Pop
52	Essentia Health –St. Joseph's Pequot Lakes Clinic	218-568-4416	4317 West Woodman St, P.O. Box 356	Pequot Lakes	MN	56472	5 Mbps Ethernet to Brainerd Pop
53	Essentia Health –St. Joseph's Pierz Clinic	320-468-2587	221 North Main, P.O. Box 216	Pierz	MN	56364	5 Mbps Ethernet to Brainerd Pop or Duluth Central Core
54	Essentia Health - St. Joseph's Pillager Clinic	218-746-4527	680 Pillsbury St. No.	Pillager	MN	56473	5 Mbps Ethernet to Brainerd Pop
55	Essentia Health - St. Joseph's Pine River Clinic	218-587-4416	415 Barclay Avenue, P.O. Box 88	Pine River	MN	56474	5 Mbps Ethernet to Brainerd Pop
56	Essentia Health – Remer Clinic	218-566-1441	9 Birch Street	Remer	MN	56672	5 Mbps Ethernet to Duluth Central Core
57	Essentia Health - Valley City Clinic	701-845-8060	132 Fourth Avenue Northeast	Valley City	ND	58072	5 Mbps Ethernet to Fargo Pop
58	Essentia Health - Wahpeton Clinic	701-642-2000	275 South 11th Street	Wahpeton	ND	58075	5 Mbps Ethernet to Fargo Pop
59	Essentia Health - Walker Clinic	218-547-6900	110 D Michigan Ave NW	Walker	MN	56484	5 Mbps Ethernet to Fargo or Brainerd Pop
60	Essentia Health – Fargo West Acres Clinic	701-364-6600	3902 13th Avenue South	Fargo	ND	58103	5 Mbps Ethernet to Fargo Pop
61	Essentia Health – Fargo West Clinic	701-364-5751	1401 13th Avenue East	West Fargo	ND	58078	5 Mbps Ethernet to Fargo Pop

62	Family Life Center – Coon Rapids	763-427-7976	1930 Coon Rapids Blvd.	Coon Rapids	MN	55433	5 Mbps Ethernet to Duluth Central Core
63	Family Life Center - Lindstrom	651-257-2281	13265 Sylvan Ave.	Lindstrom	MN	55045	5 Mbps Ethernet to Duluth Central Core
64	First Care Health Center	701-284-7500	115 Vivian St., PO Box 1	Park River	ND	58270	1.5 Mbps T1 or 5Mbps Ethernet to Grandforks Pop
65	Fraser Child and Family Center	612-861-1688	2400 W. 64th St	Richfield	MN	55423	5 Mbps Ethernet
66	Grand Itasca Clinic and Hospital	218-326-3401	1601 Golf Course Road	Grand Rapids	MN	55744	30 Mbps to Duluth Central Core
67	Human Development Center 31 West	218-730-2365	31 W. 1st St.	Duluth	MN	55802	5 Mbps to HDC 1401 Location
68	Human Development Center 315 North	218-730-2365	315 N 2nd Ave W.	Duluth	MN	55806	5 Mbps to HDC 1401 Location
69	Hutchinson Medical Center	320-234-3290	3 Century Avenue SE	Hutchinson	MN	55350	10 Mbps to Duluth Central Core
70	FirstLight Health System	320-679-1212	301 South Hwy 65	Mora	MN	55051	20 Mbps Ethernet to Duluth Central Core
71	Kittson Memorial Healthcare Center	218-843-3612	1010 S. Birch Avenue, PO Box 700	Hallock	MN	56728	45 Mbps or 50Mbps Ethernet to Grandforks Pop
72	Kittson Memorial Healthcare Karlstad Clinic	218-436-2251	1st St S & Roosevelt St	Karlstad	MN	56732	5 Mbps Ethernet to Hallock
73	Lakeland Mental Health Center Alexandria	320-762-2400	700 Cedar St. Suite 154	Alexandria	MN	56308	5 Mbps or 10 Mbps Ethernet to Fergus Falls Location
74	Lakeland Mental Health Center Detroit Lakes	218-847-1676	928 8th St. SE	Detroit Lakes	MN	56501	5 Mbps or 10 Mbps Ethernet to Fergus Falls Location
75	Lakeland Mental Health Center Fergus Falls Hwy 1	218-736-6987	21333 County Hwy 1	Fergus Falls	MN	56537	20 Mbps Ethernet to Fargo Pop
76	Lakeland Mental Health Center Glenwood	320-634-3446	100 17th Ave NW Suite 2	Glenwood	MN	56334	5 Mbps or 10 Mbps Ethernet to Fergus Falls Location
77	Lakeland Mental Health Center Moorhead	218-233-7524	1010 32nd Ave S.	Moorhead	MN	56560	5 Mbps or 10 Mbps Ethernet to Fergus Falls Location

78	LakeWood Health Center Baudette	218-634-2120	600 Main Ave. S.	Baudette	MN	56623	5 Mbps Ethernet to Duluth Central Core or Grandforks Pop
79	Lifecare Medical Center Roseau	218-463-2500	715 Delmore Dr.	Roseau	MN	56751	50 Mbps or 100 Mbps Ethernet to Grandforks Pop
80	Lifecare Medical Center Clinic Greenbush	218-463-2500	19120 200th Street	Greenbush	MN	56726	20 Mbps or 50Mbps Ethernet to Lifecare Medical Center - Roseau
81	Mercy Hospital & Healthcare Center	218-485-4481	710 South Kenwood Ave	Moose Lake	MN	55767	10 Mbps Ethernet to Duluth Central Hub
82	Migrant Health Services - Grafton	701-352-4048	701 W 6th Street	Grafton	ND	58237	5 Mbps or 10 Mbps Ethernet to Grandforks Pop
83	Migrant Health Services - Moorhead	218-236-6502	810 4th Ave S, Suite 101	Moorhead	MN	56560	5Mbps or 10Mbps Ethernet to Fargo or Duluth Central Core
84	Migrant Health Services - Rochester	507-529-0503	1926 Collegeview Rd SE	Rochester	MN	55904	5 Mbps or 10 Mbps Ethernet to Duluth Central Core
85	Migrant Health Services - Willmar	320-214-7286	130 SE Willmar Avenue	Willmar	MN	56201	5 Mbps or 10 Mbps Ethernet to Willmar Pop
86	Nelson County Health System Hospital & Clinic	701-322-4328	200 N. Main St. P.O. Box 367	McVile	ND	58254	5 Mbps or 10 Mbps Ethernet to Grandforks Pop
87	North Valley Health Center	218-745-4211	109 S. Minnesota St.	Warren	MN	56762	5 Mbps Ethernet to Grandforks Pop
88	Northern Pines Mental Health Center, Inc. Edgewood Baxter	218-316-3800	14385 Edgewood Drive	Baxter	MN	56425	10 Mbps Ethernet to Maple Street Location
89	Northern Pines Mental Health Center, Inc. Forthun Baxter	218-454-7210	7111 Forthun Rd, Suite 100	Baxter	MN	56425	10 Mbps Ethernet to Maple Street Location
90	Northern Pines Mental Health Center, Inc. 520 Brainerd	218-829-3235	520 NW 5th St.	Brainerd	MN	56401	10 Mbps Ethernet to Maple Street Location

91	Northern Pines Mental Health Center, Inc. 606 Brainerd	218-828-4877	606 Front Street	Brainerd	MN	56401	10 Mbps Ethernet to Maple Street Location
92	Northern Pines Mental Health Center, Inc. 823 Brainerd	218-454-4065	823 Maple Street	Brainerd	MN	56401	50 Mbps or 100 Mbps Ethernet to Central Hub
93	Northern Pines Mental Health Center, Inc. Little Falls	320-632-6647	1906 5th Ave. SE	Little Falls	MN	56345	10 Mbps Ethernet to Maple Street Location
94	Northern Pines Mental Health Center, Inc. Long Prairie	320-732-6602	16 9th St SE	Long Prairie	MN	56347	5 Mbps or 10 Mbps Ethernet to Maple Street Location
95	Northern Pines Mental Health Center, Inc. Staples	218-894-1002	616 4th St NE	Staples	MN	56479	5 Mbps Ethernet to Maple Street Location
96	Northern Pines Mental Health Center, Inc. Wadena	218-631-5933	415 Jefferson St N	Wadena	MN	56482	5 Mbps Ethernet to Maple Street Location
97	Northwestern Mental Health Center Bruce Crookston	218-281-3940	603 Bruce St.	Crookston	MN	56716	50 Mbps Ethernet to Grand Forks pop
98	Northwestern Mental Health Center Gretchen Crookston	218-281-3940	100 Gretchen Lane	Crookston	MN	56716	20 Mbps Internet Connection (20 Mbps up/20 Mbps down)
99	Northwestern Mental Health Center Robert Crookston	218-281-3940	101 W. Robert St.	Crookston	MN	56716	20 Mbps Internet Connection (20 Mbps up/20 Mbps down)
100	Pembina County Memorial Hospital	701-265-8461	301 Mountain St. E., PO Box 380	Cavalier	ND	58220	10 Mbps Ethernet to Grand Forks Pop
101	Range Mental Health Center, Inc. 624 Virginia	218-749-2881	624 S. 13th St.	Virginia	MN	55792	50 Mbps Ethernet to Central Hub
102	Range Mental Health Center, Inc. 504 Virginia	218-741-4714	504 1st St. N.	Virginia	MN	55792	10 Mbps Ethernet to 624 S 13th St
103	Range Mental Health Center, Inc. 626 Virginia	218-741-9120	626 13th St. S	Virginia	MN	55792	10 Mbps Ethernet to 624 S 13th St.
104	Range Mental Health Center, Inc. Hibbing	218-263-9237	3203 W. 3rd Ave	Hibbing	MN	55746	10 Mbps Ethernet to 624 S 13th St.
105	Regina Medical Center	651-480-4100	1175 Nininger	Hastings	MN	55033	10 Mbps Ethernet to

			Road				Central Core
106	Renville County Hospital & Clinics	320-523-1261	611 E. Fairview Ave.	Olivia	MN	56277	50 Mbps Ethernet to Central Hub or Willmar Pop
107	Renville County Hector Clinic	320-848-6294	131 Birch Avenue	Hector	MN	55342	5 Mbps Ethernet to Olivia hospital location
108	Renville County Olivia Clinic	320-523-1460	600 East Park	Olivia	MN	56277	5 Mbps Ethernet to Olivia hospital location
109	Renville County Renville Clinic	320-329-8395	420 North Main St.	Renville	MN	56284	5 Mbps Ethernet to Olivia hospital location
110	River's Edge St Peter Hospital	(507) 931-2200	1900 N. Sunrise Dr.	St. Peter	MN	56082	10 Mbps or 20 Mbps Ethernet to Duluth Central Core
111	River's Edge Clinic - Le Center	507-357-2208	200 East Bowler Street	Le Center	MN	56057	5 Mbps Ethernet to River's Edge Hospital
112	Riverview Healthcare Association	218-281-9200	323 S. Minnesota St.	Crookston	MN	56716	50 Mbps Ethernet to Grandforks Pop or Duluth Central Core
113	Riverwood Healthcare Center	218-927-2121	200 Bunker Hill Drive	Aitkin	MN	56431	10 Mbps or 20 Mbps Ethernet to Duluth Central Core
114	Riverwood Healthcare Garrison Clinic	320-525-3400	27278 State Hwy. 18	Garrison	MN	56450	5 Mbps Ethernet to Duluth Central Core
115	Riverwood Healthcare McGregor Clinic	218-768-4011	2 East Center Avenue	McGregor	MN	55760	5 Mbps Ethernet to Duluth Central Core
116	Swift County-Benson Hospital	320-843-4232	1815 Wisconsin Avenue	Benson	MN	56215	10 Mbps Ethernet to Duluth Central Core
117	Swift County-Benson Hospital Home Health	(320-843-9178)	2125 Minnesota Avenue	Benson	MN	56215	5 Mbps Ethernet to Swift County Hospital
118	Swift County-Benson Hospital Counseling Associates	(320) 843-3454	640 Atlantic Avenue	Benson	MN	56215	5 Mbs Ethernet to Swift County Hospital
119	Union Hospital	701-786-3800	42 6th Ave. SE	Mayville	ND	58257	5 Mbps or 10MB to Grandforks pop

120	United Hospital District	507-526-3273	515 South Moore Street	Blue Earth	MN	56013	4.5 Mbps Bonded T1s to Duluth Central Core
121	Unity Medical Center	701-352-1620	164 W. 13th St.	Grafton	ND	58237	10 Mbps or 20 Mbps to Grandforks Pop
122	Western Mental Health Center Canby	507-223-7221	112 St. Olaf Ave. S.	Canby	MN	56220	1.5 Mbps to Marshall Office
123	Western Mental Health Center Granite Falls	320-564-2238	818 Prentice St.	Granite Falls	MN	56241	5 Mbps Ethernet to Marshall Office
124	Western Mental Health Center Ivanhoe	507-694-1414	336 E. George St.	Ivanhoe	MN	56142	1.5 Mbps to Marshall Office
125	Western Mental Health Center Marshall	507-532-3236	1212 E. College Dr.	Marshall	MN	56258	20 Mbps Ethernet to Duluth Central Core
126	Western Mental Health Center Redwood Falls	507-637-3340	205 S. Mill St	Redwood Falls	MN	56283	5 Mbps Ethernet to Marshall Office

Appendix B: Hardware Requirements (Appleton Area Health)

Hardware: Cisco 2911 Router or approved equal

Quantity	Product	Description
1	CISCO2911-SEC/K9	Cisco 2911 Security Bundle w/SEC License PAK
1	MEM-2900-512U1GB	512MB to 1GB DRAM Upgrade (512MB+512MB) for 2901-2921
1	MEM-CF-256U512MB	256 to 512MB CF Upgrade Cisco 1900, 2900, 3900 ISR
1	HWIC-1GE-SFP	GigE High Speed WIC With One SFP Slot
2	VWIC2-2MFT-T1/E1	2-Port 2 nd Gen Multiflex Trunk Voice/Wan Int. Card – T1/E1
1	CAB-AC	AC Power Cord (North America) C13, NEMA 5-15P, 2.1m
1	CAB-Console-USB	Console Cable 6ft with USB Type A and mini-B
1	ISR-CCP-CD	Cisco Config Professional on CD, CCP-Express on Router Flash
1	S29UK9-15001M Cisco	2901-2921 IOS Universal
1	PWR-2911-AC	Cisco11AC Power Supply
1	SL-29-IB-K9	IP Base License for Cisco 2901-2951
1	SL-29-SEC-K9	Security License for Cisco 2901-2951
3	CON-SNT-2911SEC	SMARTnet 8x5xNBD Cisco 2911 Security

Hardware: Cisco 3560X Series Switch or approved equal (POP Location)

Quantity	Product	Description
1	WS-3560X-48TS-S	Catalyst 3560X 48 48 Port Data IP Base
1	C3KX-NM-1G	Catalyst 3K-X 1G Network Module Option PID
1	CAB-CONSOLE-USB	Console Cable 6 ft with USB Type A and mini-B
1	S356XVK9T-12255SE	CAT 3560 IOS UNIVERSAL WITH WEB BASED DEV MGR
1	C3KX-PWR-350WAC/2	Catalyst 3K-X 350W AC Secondary Power Supply
1	CAB-SKX-AC	AC Power Cord for Catalyst 3K-X (North America)
3	CON-SNTP-3560X 4TS	SMARTnet 8x5xNBD Service

Hardware: Optics and GLC Connectors or approved equal

Quantity	Product	Description
4	GLC-T=	1000BASE-T SFP
4	GLC-SX-MM=	GE SFP, LC connector SX transceiver

Appendix B: Hardware Requirements (Bigfork Valley Hospital)

Hardware: Cisco 3925 Router or approved equal

Quantity	Product	Description
1	CISCO3925-SEC/K9	Cisco 3925 Security Bundle w/SEC license PAK
1	SL-39-DATA-K9	Data License for Cisco Series
1	MEM-CF-256U1GB	256MB to 1GB Compact Flash Upgrade for Cisco 3900 Series
1	HWIC-1GE-SFP	GigE High Speed WIC With One SFP Slot
1	CAB-AC	AC Power Cord (North America C13, NEMA 5-15P, 2.1m
1	S39UK9-15001M	Cisco 3925-3945 IOS UNIVERSAL
1	PWR-3900-AC	Cisco 3925/3945 AC Power Supply
1	3900-FANASSY	Cisco 3925/3945 Fan Assembly (Bezel Included)
1	C3900-SPE 100/K9	Cisco Services Performace Engine 100 for Cisco 3925 ISR
1	ISR-CCP-EXP	Cisco Config Pro Express on Router Flash
1	MEM-3900-1GB-DEF	1 GB DRAM 512MB+512MB for Cisco 3925/3945 ISR (Default)
1	CAB-Console-USB	Console Cable 6ft with USB Type A and mini B
1	SL-39-IPB-K9	IP Base License for Cisco 3925/3945
1	SL-39-DEC-K9	Security License for Cisco 3900 Series
1	CON-SNTP-3925SEC	SMARTnet 8x5xNBD Cisco 3925 Security Bundle w/SEC License

Hardware: Cisco 2911 Router or approved equal

Quantity	Product	Description
2	CISCO2911-SEC/K9	Cisco 2911 Security Bundle w/SEC License PAK
2	MEM-2900-512U1GB	512MB to 1GB DRAM Upgrade (512MB+512MB) for 2901-2921
2	MEM-CF-256U512MB	256 to 512MB CF Upgrade Cisco 1900, 2900, 3900 ISR
2	HWIC-1GE-SFP	GigE High Speed WIC With One SFP Slot
2	VVIC2-2MFT-T1/E1	2-Port 2 nd Gen Multiflex Trunk Voice/Wan Int. Card – T1/E1
2	CAB-AC	AC Power Cord (North America) C13, NEMA 5-15P, 2.1m
2	CAB-Console-USB	Console Cable 6ft with USB Type A and mini-B
2	ISR-CCP-CD	Cisco Config Professional on CD, CCP-Express on Router Flash
2	S29UK9-15001M Cisco	2901-2921 IOS Universal
2	PWR-2911-AC	Cisco11AC Power Supply
2	SL-29-IB-K9	IP Base License for Cisco 2901-2951
2	SL-29-SEC-K9	Security License for Cisco 2901-2951
6	CON-SNT-2911SEC	SMARTnet 8x5xNBD Cisco2911 Security

Appendix B: Hardware Requirements (Cavalier County Memorial Hospital)

Hardware: Cisco 2911 Router or approved equal

Quantity	Product	Description
1	CISCO2911-SEC/K9	Cisco 2911 Security Bundle w/SEC License PAK
1	MEM-2900-512U1GB	512MB to 1GB DRAM Upgrade (512MB+512MB) for 2901-2921
1	MEM-CF-256U512MB	256 to 512MB CF Upgrade Cisco 1900, 2900, 3900 ISR
1	HWIC-1GE-SFP	GigE High Speed WIC With One SFP Slot
2	VWIC2-2MFT-T1/E1	2-Port 2 nd Gen Multiflex Trunk Voice/Wan Int. Card – T1/E1
1	CAB-AC	AC Power Cord (North America) C13, NEMA 5-15P, 2.1m
1	CAB-Console-USB	Console Cable 6ft with USB Type A and mini-B
1	ISR-CCP-CD	Cisco Config Professional on CD, CCP-Express on Router Flash
1	S29UK9-15001M Cisco	2901-2921 IOS Universal
1	PWR-2911-AC	Cisco11AC Power Supply
1	SL-29-IB-K9	IP Base License for Cisco 2901-2951
1	SL-29-SEC-K9	Security License for Cisco 2901-2951
3	CON-SNT-2911SEC	SMARTnet 8x5xNBD Cisco2911 Security

Hardware: Cisco 3560X Series Switch or approved equal

Quantity	Product	Description
1	WS-3560X-48TS-S	Catalyst 3560X 48 48 Port Data IP Base
1	C3KX-NM-1G	Catalyst 3K-X 1G Network Module Option PID
1	CAB-CONSOLE-USB	Console Cable 6 ft with USB Type A and mini-B
1	S356XVK9T-12255SE	CAT 3560 IOS UNIVERSAL WITH WEB BASED DEV MGR
1	C3KX-PWR-350WAC/2	Catalyst 3K-X 350W AC Secondary Power Supply
1	CAB-SKX-AC	AC Power Cord for Catalyst 3K-X (North America)
3	CON-SNTP-3560X 4TS	SMARTnet 8x5xNBD Service

Hardware: Optics and GLC Connectors or approved equal

Quantity	Product	Description
4	GLC-T=	1000BASE-T SFP
4	GLC-SX-MM=	GE SFP, LC connector SX transceiver

Appendix B: Hardware Requirements (Children’s Mental Health Services)

Hardware: Cisco 2911 Router or approved equal

Quantity	Product	Description
1	CISCO2911-SEC/K9	Cisco 2911 Security Bundle w/SEC License PAK
1	MEM-2900-512U1GB	512MB to 1GB DRAM Upgrade (512MB+512MB) for 2901-2921
1	MEM-CF-256U512MB	256 to 512MB CF Upgrade Cisco 1900, 2900, 3900 ISR
1	HWIC-1GE-SFP	GigE High Speed WIC With One SFP Slot
1	VWIC2-2MFT-T1/E1	2-Port 2 nd Gen Multiflex Trunk Voice/Wan Int. Card – T1/E1
1	CAB-AC	AC Power Cord (North America) C13, NEMA 5-15P, 2.1m
1	CAB-Console-USB	Console Cable 6ft with USB Type A and mini-B
1	ISR-CCP-CD	Cisco Config Professional on CD, CCP-Express on Router Flash
1	S29UK9-15001M Cisco	2901-2921 IOS Universal
1	PWR-2911-AC	Cisco11AC Power Supply
1	SL-29-IB-K9	IP Base License for Cisco 2901-2951
1	SL-29-SEC-K9	Security License for Cisco 2901-2951
3	CON-SNT-2911SEC	SMARTnet 8x5xNBD Cisco2911 Security

Hardware: Cisco 3560X Series Switch or approved equal

Quantity	Product	Description
1	WS-3560X-48TS-S	Catalyst 3560X 48 48 Port Data IP Base
1	C3KX-NM-1G	Catalyst 3K-X 1G Network Module Option PID
1	CAB-CONSOLE-USB	Console Cable 6 ft with USB Type A and mini-B
1	S356XVK9T-12255SE	CAT 3560 IOS UNIVERSAL WITH WEB BASED DEV MGR
1	C3KX-PWR-350WAC/2	Catalyst 3K-X 350W AC Secondary Power Supply
1	CAB-SKX-AC	AC Power Cord for Catalyst 3K-X (North America)
3	CON-SNTP-3560X 4TS	SMARTnet 8x5xNBD Service

Hardware: Optics and GLC Connectors or approved equal

Quantity	Product	Description
4	GLC-T=	1000BASE-T SFP
4	GLC-SX-MM=	GE SFP, LC connector SX transceiver

Appendix B: Hardware Requirements (Clearwater Health Services)

Hardware: Cisco 2911 Router or approved equal

Quantity	Product	Description
1	CISCO2911-SEC/K9	Cisco 2911 Security Bundle w/SEC License PAK
1	MEM-2900-512U1GB	512MB to 1GB DRAM Upgrade (512MB+512MB) for 2901-2921
1	MEM-CF-256U512MB	256 to 512MB CF Upgrade Cisco 1900, 2900, 3900 ISR
1	HWIC-1GE-SFP	GigE High Speed WIC With One SFP Slot
2	VVIC2-2MFT-T1/E1	2-Port 2 nd Gen Multiflex Trunk Voice/Wan Int. Card – T1/E1
1	CAB-AC	AC Power Cord (North America) C13, NEMA 5-15P, 2.1m
1	CAB-Console-USB	Console Cable 6ft with USB Type A and mini-B
1	ISR-CCP-CD	Cisco Config Professional on CD, CCP-Express on Router Flash
1	S29UK9-15001M Cisco	2901-2921 IOS Universal
1	PWR-2911-AC	Cisco11AC Power Supply
1	SL-29-IB-K9	IP Base License for Cisco 2901-2951
1	SL-29-SEC-K9	Security License for Cisco 2901-2951
3	CON-SNT-2911SEC	SMARTnet 8x5xNBD Cisco2911 Security

Hardware: Cisco 3560X Series Switch or approved equal

Quantity	Product	Description
1	WS-3560X-48TS-S	Catalyst 3560X 48 48 Port Data IP Base
1	C3KX-NM-1G	Catalyst 3K-X 1G Network Module Option PID
1	CAB-CONSOLE-USB	Console Cable 6 ft with USB Type A and mini-B
1	S356XVK9T-12255SE	CAT 3560 IOS UNIVERSAL WITH WEB BASED DEV MGR
1	C3KX-PWR-350WAC/2	Catalyst 3K-X 350W AC Secondary Power Supply
1	CAB-SKX-AC	AC Power Cord for Catalyst 3K-X (North America)
3	CON-SNTP-3560X 4TS	SMARTnet 8x5xNBD Service

Hardware: Optics and GLC Connectors or approved equal

Quantity	Product	Description
4	GLC-T=	1000BASE-T SFP
4	GLC-SX-MM=	GE SFP, LC connector SX transceiver

Appendix B: Hardware Requirements (Cloquet Community Memorial Hospital)

Hardware: Cisco ASR 1001 Router or approved equal

Quantity	Product	Description
1	ASR1001	Cisco ASR1001 System Crypto, 4built-in GE, Dual P/S
2	ASR1001-PWR-AC	Cisco ASR1001 AC Power Supply
2	CAB-AC-RA	Power Cord, 110V, Right Angle
2	SFP-GE-S	1000BASE-SX SFP (DOM)
2	SFP-GE-Z	1000BASE-ZX Gigabit Ethernet SFP (DOM)
1	M-ASR1K-1001-4GB	Cisco ASR1001 4GB DRAM
1	SASR1001UK9-32S	Cisco ASR 1001 IOS XE – ECRYPTION UNIVERSAL
1	SLASR1-AIS	Cisco ASR 1001 Advanced IP Services License
1	FLASHR1-IOSRED	SW Redundancy License for ASR1000 Series

Hardware: Cisco 3560X Series Switch or approved equal

Quantity	Product	Description
1	WS-3560X-48TS-S	Catalyst 3560X 48 48 Port Data IP Base
1	C3KX-NM-1G	Catalyst 3K-X 1G Network Module Option PID
1	CAB-CONSOLE-USB	Console Cable 6 ft with USB Type A and mini-B
1	S356XVK9T-12255SE	CAT 3560 IOS UNIVERSAL WITH WEB BASED DEV MGR
1	C3KX-PWR-350WAC/2	Catalyst 3K-X 350W AC Secondary Power Supply
1	CAB-SKX-AC	AC Power Cord for Catalyst 3K-X (North America)
3	CON-SNTP-3560X 4TS	SMARTnet 8x5xNBD Service

Hardware: Optics and GLC Connectors or approved equal

Quantity	Product	Description
4	GLC-T=	1000BASE-T SFP
4	GLC-SX-MM=	GE SFP, LC connector SX transceiver

Appendix B: Hardware Requirements (Cook County North Shore Hospital & Care Center)

Hardware: Cisco ASR 1001 Router or approved equal

Quantity	Product	Description
1	ASR1001	Cisco ASR1001 System Crypto, 4built-in GE, Dual P/S
2	ASR1001-PWR-AC	Cisco ASR1001 AC Power Supply
2	CAB-AC-RA	Power Cord, 110V, Right Angle
2	SFP-GE-S	1000BASE-SX SFP (DOM)
2	SFP-GE-Z	1000BASE-ZX Gigabit Ethernet SFP (DOM)
1	M-ASR1K-1001-4GB	Cisco ASR1001 4GB DRAM
1	SASR1001UK9-32S	Cisco ASR 1001 IOS XE – ECRYPTION UNIVERSAL
1	SLASR1-AIS	Cisco ASR 1001 Advanced IP Services License
1	FLASHR1-IOSRED	SW Redundancy License for ASR1000 Series

Hardware: Cisco 3560X Series Switch or approved equal

Quantity	Product	Description
1	WS-3560X-48TS-S	Catalyst 3560X 48 48 Port Data IP Base
1	C3KX-NM-1G	Catalyst 3K-X 1G Network Module Option PID
1	CAB-CONSOLE-USB	Console Cable 6 ft with USB Type A and mini-B
1	S356XVK9T-12255SE	CAT 3560 IOS UNIVERSAL WITH WEB BASED DEV MGR
1	C3KX-PWR-350WAC/2	Catalyst 3K-X 350W AC Secondary Power Supply
1	CAB-SKX-AC	AC Power Cord for Catalyst 3K-X (North America)
3	CON-SNTP-3560X 4TS	SMARTnet 8x5xNBD Service

Hardware: Optics and GLC Connectors or approved equal

Quantity	Product	Description
4	GLC-T=	1000BASE-T SFP
4	GLC-SX-MM=	GE SFP, LC connector SX transceiver

Appendix B: Hardware Requirements (Cook Hospital)

Hardware: Cisco ASR 1001 Router or approved equal

Quantity	Product	Description
1	ASR1001	Cisco ASR1001 System Crypto, 4built-in GE, Dual P/S
2	ASR1001-PWR-AC	Cisco ASR1001 AC Power Supply
2	CAB-AC-RA	Power Cord, 110V, Right Angle
2	SFP-GE-S	1000BASE-SX SFP (DOM)
2	SFP-GE-Z	1000BASE-ZX Gigabit Ethernet SFP (DOM)
1	M-ASR1K-1001-4GB	Cisco ASR1001 4GB DRAM
1	SASR1001UK9-32S	Cisco ASR 1001 IOS XE – ECRYPTION UNIVERSAL
1	SLASR1-AIS	Cisco ASR 1001 Advanced IP Services License
1	FLASHR1-IOSRED	SW Redundancy License for ASR1000 Series

Hardware: Cisco 3560X Series Switch or approved equal

Quantity	Product	Description
1	WS-3560X-48TS-S	Catalyst 3560X 48 48 Port Data IP Base
1	C3KX-NM-1G	Catalyst 3K-X 1G Network Module Option PID
1	CAB-CONSOLE-USB	Console Cable 6 ft with USB Type A and mini-B
1	S356XVK9T-12255SE	CAT 3560 IOS UNIVERSAL WITH WEB BASED DEV MGR
1	C3KX-PWR-350WAC/2	Catalyst 3K-X 350W AC Secondary Power Supply
1	CAB-SKX-AC	AC Power Cord for Catalyst 3K-X (North America)
3	CON-SNTP-3560X 4TS	SMARTnet 8x5xNBD Service

Hardware: Optics and GLC Connectors or approved equal

Quantity	Product	Description
4	GLC-T=	1000BASE-T SFP
4	GLC-SX-MM=	GE SFP, LC connector SX transceiver

Appendix B: Hardware Requirements (Cooperstown Medical Center)

Hardware: Cisco 3925 Router or approved equal

Quantity	Product	Description
1	CISCO3925-SEC/K9	Cisco 3925 Security Bundle w/SEC license PAK
1	SL-39-DATA-K9	Data License for Cisco Series
1	MEM-CF-256U1GB	256MB to 1GB Compact Flash Upgrade for Cisco 3900 Series
1	HWIC-1GE-SFP	GigE High Speed WIC With One SFP Slot
2	VVIC2-2MFT-T1/E1	2-Port 2 nd Gen Multiflex Trunk Voice/Wan Int. Card – T1/E1
1	CAB-AC	AC Power Cord (North America C13, NEMA 5-15P, 2.1m)
1	S39UK9-15001M	Cisco 3925-3945 IOS UNIVERSAL
1	PWR-3900-AC	Cisco 3925/3945 AC Power Supply
1	3900-FANASSY	Cisco 3925/3945 Fan Assembly (Bezel Included)
1	C3900-SPE 100/K9	Cisco Services Performace Engine 100 for Cisco 3925 ISR
1	ISR-CCP-EXP	Cisco Config Pro Express on Router Flash
1	MEM-3900-1GB-DEF	1 GB DRAM 512MB+512MB for Cisco 3925/3945 ISR (Default)
1	CAB-Console-USB	Console Cable 6ft with USB Type A and mini B
1	SL-39-IPB-K9	IP Base License for Cisco 3925/3945
1	SL-39-DEC-K9	Security License for Cisco 3900 Series
1	CON-SNTP-3925SEC	SMARTnet 8x5xNBD Cisco 3925 Security Bundle w/SEC License

Hardware: Cisco 3560X Series Switch or approved equal

Quantity	Product	Description
1	WS-3560X-48TS-S	Catalyst 3560X 48 48 Port Data IP Base
1	C3KX-NM-1G	Catalyst 3K-X 1G Network Module Option PID
1	CAB-CONSOLE-USB	Console Cable 6 ft with USB Type A and mini-B
1	S356XVK9T-12255SE	CAT 3560 IOS UNIVERSAL WITH WEB BASED DEV MGR
1	C3KX-PWR-350WAC/2	Catalyst 3K-X 350W AC Secondary Power Supply
1	CAB-SKX-AC	AC Power Cord for Catalyst 3K-X (North America)
3	CON-SNTP-3560X 4TS	SMARTnet 8x5xNBD Service

Hardware: Optics and GLC Connectors or approved equal

Quantity	Product	Description
4	GLC-T=	1000BASE-T SFP
4	GLC-SX-MM=	GE SFP, LC connector SX transceiver

Appendix B: Hardware Requirements (Cuyuna Regional Medical Center)

Hardware: Cisco ASR 1001 Router or approved equal

Quantity	Product	Description
1	ASR1001	Cisco ASR1001 System Crypto, 4built-in GE, Dual P/S
2	ASR1001-PWR-AC	Cisco ASR1001 AC Power Supply
2	CAB-AC-RA	Power Cord, 110V, Right Angle
2	SFP-GE-S	1000BASE-SX SFP (DOM)
2	SFP-GE-Z	1000BASE-ZX Gigabit Ethernet SFP (DOM)
1	M-ASR1K-1001-4GB	Cisco ASR1001 4GB DRAM
1	SASR1001UK9-32S	Cisco ASR 1001 IOS XE – ECRYPTION UNIVERSAL
1	SLASR1-AIS	Cisco ASR 1001 Advanced IP Services License
1	FLASHR1-IOSRED	SW Redundancy License for ASR1000 Series

Hardware: Cisco 3560X Series Switch or approved equal

Quantity	Product	Description
1	WS-3560X-48TS-S	Catalyst 3560X 48 48 Port Data IP Base
1	C3KX-NM-1G	Catalyst 3K-X 1G Network Module Option PID
1	CAB-CONSOLE-USB	Console Cable 6 ft with USB Type A and mini-B
1	S356XVK9T-12255SE	CAT 3560 IOS UNIVERSAL WITH WEB BASED DEV MGR
1	C3KX-PWR-350WAC/2	Catalyst 3K-X 350W AC Secondary Power Supply
1	CAB-SKX-AC	AC Power Cord for Catalyst 3K-X (North America)
3	CON-SNTP-3560X 4TS	SMARTnet 8x5xNBD Service

Hardware: Optics and GLC Connectors or approved equal

Quantity	Product	Description
4	GLC-T=	1000BASE-T SFP
4	GLC-SX-MM=	GE SFP, LC connector SX transceiver

Appendix B: Hardware Requirements (Deer River Healthcare Center)

Hardware: Cisco 2911 Router or approved equal

Quantity	Product	Description
1	CISCO2911-SEC/K9	Cisco 2911 Security Bundle w/SEC License PAK
1	MEM-2900-512U1GB	512MB to 1GB DRAM Upgrade (512MB+512MB) for 2901-2921
1	MEM-CF-256U512MB	256 to 512MB CF Upgrade Cisco 1900, 2900, 3900 ISR
1	HWIC-1GE-SFP	GigE High Speed WIC With One SFP Slot
1	VVIC2-2MFT-T1/E1	2-Port 2 nd Gen Multiflex Trunk Voice/Wan Int. Card – T1/E1
1	CAB-AC	AC Power Cord (North America) C13, NEMA 5-15P, 2.1m
1	CAB-Console-USB	Console Cable 6ft with USB Type A and mini-B
1	ISR-CCP-CD	Cisco Config Professional on CD, CCP-Express on Router Flash
1	S29UK9-15001M Cisco	2901-2921 IOS Universal
1	PWR-2911-AC	Cisco11AC Power Supply
1	SL-29-IB-K9	IP Base License for Cisco 2901-2951
1	SL-29-SEC-K9	Security License for Cisco 2901-2951
3	CON-SNT-2911SEC	SMARTnet 8x5xNBD Cisco2911 Security

Hardware: Cisco 3560X Series Switch or approved equal

Quantity	Product	Description
1	WS-3560X-48TS-S	Catalyst 3560X 48 48 Port Data IP Base
1	C3KX-NM-1G	Catalyst 3K-X 1G Network Module Option PID
1	CAB-CONSOLE-USB	Console Cable 6 ft with USB Type A and mini-B
1	S356XVK9T-12255SE	CAT 3560 IOS UNIVERSAL WITH WEB BASED DEV MGR
1	C3KX-PWR-350WAC/2	Catalyst 3K-X 350W AC Secondary Power Supply
1	CAB-SKX-AC	AC Power Cord for Catalyst 3K-X (North America)
3	CON-SNTP-3560X 4TS	SMARTnet 8x5xNBD Service

Hardware: Optics and GLC Connectors or approved equal

Quantity	Product	Description
4	GLC-T=	1000BASE-T SFP
4	GLC-SX-MM=	GE SFP, LC connector SX transceiver

Appendix B: Hardware Requirements (Ely-Bloomenson Community Hospital)

Hardware: Cisco ASR 1001 Router or approved equal

Quantity	Product	Description
1	CISCO2911-SEC/K9	Cisco 2911 Security Bundle w/SEC License PAK

Hardware: Cisco 3560X Series Switch or approved equal

Quantity	Product	Description
1	WS-3560X-48TS-S	Catalyst 3560X 48 48 Port Data IP Base
1	C3KX-NM-1G	Catalyst 3K-X 1G Network Module Option PID
1	CAB-CONSOLE-USB	Console Cable 6 ft with USB Type A and mini-B
1	S356XVK9T-12255SE	CAT 3560 IOS UNIVERSAL WITH WEB BASED DEV MGR
1	C3KX-PWR-350WAC/2	Catalyst 3K-X 350W AC Secondary Power Supply
1	CAB-SKX-AC	AC Power Cord for Catalyst 3K-X (North America)
3	CON-SNTP-3560X 4TS	SMARTnet 8x5xNBD Service

Hardware: Optics and GLC Connectors or approved equal

Quantity	Product	Description
4	GLC-T=	1000BASE-T SFP
4	GLC-SX-MM=	GE SFP, LC connector SX transceiver

Appendix B: Hardware Requirements (Essentia Health – Ada – Bridges Medical Center)

Hardware: Cisco 2911 Router or approved equal

Quantity	Product	Description
1	CISCO2911-SEC/K9	Cisco 2911 Security Bundle w/SEC License PAK
1	MEM-2900-512U1GB	512MB to 1GB DRAM Upgrade (512MB+512MB) for 2901-2921
1	MEM-CF-256U512MB	256 to 512MB CF Upgrade Cisco 1900, 2900, 3900 ISR
1	HWIC-1GE-SFP	GigE High Speed WIC With One SFP Slot
2	VWIC2-2MFT-T1/E1	2-Port 2 nd Gen Multiflex Trunk Voice/Wan Int. Card – T1/E1
1	CAB-AC	AC Power Cord (North America) C13, NEMA 5-15P, 2.1m
1	CAB-Console-USB	Console Cable 6ft with USB Type A and mini-B
1	ISR-CCP-CD	Cisco Config Professional on CD, CCP-Express on Router Flash
1	S29UK9-15001M Cisco	2901-2921 IOS Universal
1	PWR-2911-AC	Cisco11AC Power Supply
1	SL-29-IB-K9	IP Base License for Cisco 2901-2951
1	SL-29-SEC-K9	Security License for Cisco 2901-2951
3	CON-SNT-2911SEC	SMARTnet 8x5xNBD Cisco2911 Security

Hardware: Cisco 3560X Series Switch or approved equal

Quantity	Product	Description
1	WS-3560X-48TS-S	Catalyst 3560X 48 48 Port Data IP Base
1	C3KX-NM-1G	Catalyst 3K-X 1G Network Module Option PID
1	CAB-CONSOLE-USB	Console Cable 6 ft with USB Type A and mini-B
1	S356XVK9T-12255SE	CAT 3560 IOS UNIVERSAL WITH WEB BASED DEV MGR
1	C3KX-PWR-350WAC/2	Catalyst 3K-X 350W AC Secondary Power Supply
1	CAB-SKX-AC	AC Power Cord for Catalyst 3K-X (North America)
3	CON-SNTP-3560X 4TS	SMARTnet 8x5xNBD Service

Hardware: Optics and GLC Connectors or approved equal

Quantity	Product	Description
4	GLC-T=	1000BASE-T SFP
4	GLC-SX-MM=	GE SFP, LC connector SX transceiver

Appendix B: Hardware Requirements (Essentia Health – Aurora Clinic)

Hardware: Cisco 2911 Router or approved equal

Quantity	Product	Description
1	CISCO2911-SEC/K9	Cisco 2911 Security Bundle w/SEC License PAK
1	MEM-2900-512U1GB	512MB to 1GB DRAM Upgrade (512MB+512MB) for 2901-2921
1	MEM-CF-256U512MB	256 to 512MB CF Upgrade Cisco 1900, 2900, 3900 ISR
1	HWIC-1GE-SFP	GigE High Speed WIC With One SFP Slot
2	VWIC2-2MFT-T1/E1	2-Port 2 nd Gen Multiflex Trunk Voice/Wan Int. Card – T1/E1
1	CAB-AC	AC Power Cord (North America) C13, NEMA 5-15P, 2.1m
1	CAB-Console-USB	Console Cable 6ft with USB Type A and mini-B
1	ISR-CCP-CD	Cisco Config Professional on CD, CCP-Express on Router Flash
1	S29UK9-15001M Cisco	2901-2921 IOS Universal
1	PWR-2911-AC	Cisco11AC Power Supply
1	SL-29-IB-K9	IP Base License for Cisco 2901-2951
1	SL-29-SEC-K9	Security License for Cisco 2901-2951
3	CON-SNT-2911SEC	SMARTnet 8x5xNBD Cisco2911 Security

Hardware: Cisco 3560X Series Switch or approved equal

Quantity	Product	Description
1	WS-3560X-48TS-S	Catalyst 3560X 48 48 Port Data IP Base
1	C3KX-NM-1G	Catalyst 3K-X 1G Network Module Option PID
1	CAB-CONSOLE-USB	Console Cable 6 ft with USB Type A and mini-B
1	S356XVK9T-12255SE	CAT 3560 IOS UNIVERSAL WITH WEB BASED DEV MGR
1	C3KX-PWR-350WAC/2	Catalyst 3K-X 350W AC Secondary Power Supply
1	CAB-SKX-AC	AC Power Cord for Catalyst 3K-X (North America)
3	CON-SNTP-3560X 4TS	SMARTnet 8x5xNBD Service

Hardware: Optics and GLC Connectors or approved equal

Quantity	Product	Description
4	GLC-T=	1000BASE-T SFP
4	GLC-SX-MM=	GE SFP, LC connector SX transceiver

Appendix B: Hardware Requirements (Essentia Health – Northern Pines Aurora)

Hardware: Cisco 2911 Router or approved equal

Quantity	Product	Description
1	CISCO2911-SEC/K9	Cisco 2911 Security Bundle w/SEC License PAK
1	MEM-2900-512U1GB	512MB to 1GB DRAM Upgrade (512MB+512MB) for 2901-2921
1	MEM-CF-256U512MB	256 to 512MB CF Upgrade Cisco 1900, 2900, 3900 ISR
1	HWIC-1GE-SFP	GigE High Speed WIC With One SFP Slot
2	VWIC2-2MFT-T1/E1	2-Port 2 nd Gen Multiflex Trunk Voice/Wan Int. Card – T1/E1
1	CAB-AC	AC Power Cord (North America) C13, NEMA 5-15P, 2.1m
1	CAB-Console-USB	Console Cable 6ft with USB Type A and mini-B
1	ISR-CCP-CD	Cisco Config Professional on CD, CCP-Express on Router Flash
1	S29UK9-15001M Cisco	2901-2921 IOS Universal
1	PWR-2911-AC	Cisco11AC Power Supply
1	SL-29-IB-K9	IP Base License for Cisco 2901-2951
1	SL-29-SEC-K9	Security License for Cisco 2901-2951
3	CON-SNT-2911SEC	SMARTnet 8x5xNBD Cisco2911 Security

Hardware: Cisco 3560X Series Switch or approved equal

Quantity	Product	Description
1	WS-3560X-48TS-S	Catalyst 3560X 48 48 Port Data IP Base
1	C3KX-NM-1G	Catalyst 3K-X 1G Network Module Option PID
1	CAB-CONSOLE-USB	Console Cable 6 ft with USB Type A and mini-B
1	S356XVK9T-12255SE	CAT 3560 IOS UNIVERSAL WITH WEB BASED DEV MGR
1	C3KX-PWR-350WAC/2	Catalyst 3K-X 350W AC Secondary Power Supply
1	CAB-SKX-AC	AC Power Cord for Catalyst 3K-X (North America)
3	CON-SNTP-3560X 4TS	SMARTnet 8x5xNBD Service

Hardware: Optics and GLC Connectors or approved equal

Quantity	Product	Description
4	GLC-T=	1000BASE-T SFP
4	GLC-SX-MM=	GE SFP, LC connector SX transceiver

Appendix B: Hardware Requirements (Essentia Health – Babbitt Clinic)

Hardware: Cisco 2911 Router or approved equal

Quantity	Product	Description
1	CISCO2911-SEC/K9	Cisco 2911 Security Bundle w/SEC License PAK
1	MEM-2900-512U1GB	512MB to 1GB DRAM Upgrade (512MB+512MB) for 2901-2921
1	MEM-CF-256U512MB	256 to 512MB CF Upgrade Cisco 1900, 2900, 3900 ISR
1	HWIC-1GE-SFP	GigE High Speed WIC With One SFP Slot
2	VWIC2-2MFT-T1/E1	2-Port 2 nd Gen Multiflex Trunk Voice/Wan Int. Card – T1/E1
1	CAB-AC	AC Power Cord (North America) C13, NEMA 5-15P, 2.1m
1	CAB-Console-USB	Console Cable 6ft with USB Type A and mini-B
1	ISR-CCP-CD	Cisco Config Professional on CD, CCP-Express on Router Flash
1	S29UK9-15001M Cisco	2901-2921 IOS Universal
1	PWR-2911-AC	Cisco11AC Power Supply
1	SL-29-IB-K9	IP Base License for Cisco 2901-2951
1	SL-29-SEC-K9	Security License for Cisco 2901-2951
3	CON-SNT-2911SEC	SMARTnet 8x5xNBD Cisco2911 Security

Hardware: Cisco 3560X Series Switch or approved equal

Quantity	Product	Description
1	WS-3560X-48TS-S	Catalyst 3560X 48 48 Port Data IP Base
1	C3KX-NM-1G	Catalyst 3K-X 1G Network Module Option PID
1	CAB-CONSOLE-USB	Console Cable 6 ft with USB Type A and mini-B
1	S356XVK9T-12255SE	CAT 3560 IOS UNIVERSAL WITH WEB BASED DEV MGR
1	C3KX-PWR-350WAC/2	Catalyst 3K-X 350W AC Secondary Power Supply
1	CAB-SKX-AC	AC Power Cord for Catalyst 3K-X (North America)
3	CON-SNTP-3560X 4TS	SMARTnet 8x5xNBD Service

Hardware: Optics and GLC Connectors or approved equal

Quantity	Product	Description
4	GLC-T=	1000BASE-T SFP
4	GLC-SX-MM=	GE SFP, LC connector SX transceiver

Appendix B: Hardware Requirements (Essentia Health – Convenient Care Baxter)

Hardware: Cisco 2911 Router or approved equal

Quantity	Product	Description
1	CISCO2911-SEC/K9	Cisco 2911 Security Bundle w/SEC License PAK
1	MEM-2900-512U1GB	512MB to 1GB DRAM Upgrade (512MB+512MB) for 2901-2921
1	MEM-CF-256U512MB	256 to 512MB CF Upgrade Cisco 1900, 2900, 3900 ISR
1	HWIC-1GE-SFP	GigE High Speed WIC With One SFP Slot
2	VVIC2-2MFT-T1/E1	2-Port 2 nd Gen Multiflex Trunk Voice/Wan Int. Card – T1/E1
1	CAB-AC	AC Power Cord (North America) C13, NEMA 5-15P, 2.1m
1	CAB-Console-USB	Console Cable 6ft with USB Type A and mini-B
1	ISR-CCP-CD	Cisco Config Professional on CD, CCP-Express on Router Flash
1	S29UK9-15001M Cisco	2901-2921 IOS Universal
1	PWR-2911-AC	Cisco11AC Power Supply
1	SL-29-IB-K9	IP Base License for Cisco 2901-2951
1	SL-29-SEC-K9	Security License for Cisco 2901-2951
3	CON-SNT-2911SEC	SMARTnet 8x5xNBD Cisco2911 Security

Hardware: Cisco 3560X Series Switch or approved equal

Quantity	Product	Description
1	WS-3560X-48TS-S	Catalyst 3560X 48 48 Port Data IP Base
1	C3KX-NM-1G	Catalyst 3K-X 1G Network Module Option PID
1	CAB-CONSOLE-USB	Console Cable 6 ft with USB Type A and mini-B
1	S356XVK9T-12255SE	CAT 3560 IOS UNIVERSAL WITH WEB BASED DEV MGR
1	C3KX-PWR-350WAC/2	Catalyst 3K-X 350W AC Secondary Power Supply
1	CAB-SKX-AC	AC Power Cord for Catalyst 3K-X (North America)
3	CON-SNTP-3560X 4TS	SMARTnet 8x5xNBD Service

Hardware: Optics and GLC Connectors or approved equal

Quantity	Product	Description
4	GLC-T=	1000BASE-T SFP
4	GLC-SX-MM=	GE SFP, LC connector SX transceiver

Appendix B: Hardware Requirements (Essentia Health – Brainerd Medical Center)

Hardware: Cisco 2911 Router or approved equal

Quantity	Product	Description
1	CISCO2911-SEC/K9	Cisco 2911 Security Bundle w/SEC License PAK
1	MEM-2900-512U1GB	512MB to 1GB DRAM Upgrade (512MB+512MB) for 2901-2921
1	MEM-CF-256U512MB	256 to 512MB CF Upgrade Cisco 1900, 2900, 3900 ISR
1	HWIC-1GE-SFP	GigE High Speed WIC With One SFP Slot
2	VVIC2-2MFT-T1/E1	2-Port 2 nd Gen Multiflex Trunk Voice/Wan Int. Card – T1/E1
1	CAB-AC	AC Power Cord (North America) C13, NEMA 5-15P, 2.1m
1	CAB-Console-USB	Console Cable 6ft with USB Type A and mini-B
1	ISR-CCP-CD	Cisco Config Professional on CD, CCP-Express on Router Flash
1	S29UK9-15001M Cisco	2901-2921 IOS Universal
1	PWR-2911-AC	Cisco11AC Power Supply
1	SL-29-IB-K9	IP Base License for Cisco 2901-2951
1	SL-29-SEC-K9	Security License for Cisco 2901-2951
3	CON-SNT-2911SEC	SMARTnet 8x5xNBD Cisco2911 Security

Hardware: Cisco 3560X Series Switch or approved equal

Quantity	Product	Description
1	WS-3560X-48TS-S	Catalyst 3560X 48 48 Port Data IP Base
1	C3KX-NM-1G	Catalyst 3K-X 1G Network Module Option PID
1	CAB-CONSOLE-USB	Console Cable 6 ft with USB Type A and mini-B
1	S356XVK9T-12255SE	CAT 3560 IOS UNIVERSAL WITH WEB BASED DEV MGR
1	C3KX-PWR-350WAC/2	Catalyst 3K-X 350W AC Secondary Power Supply
1	CAB-SKX-AC	AC Power Cord for Catalyst 3K-X (North America)
3	CON-SNTP-3560X 4TS	SMARTnet 8x5xNBD Service

Hardware: Optics and GLC Connectors or approved equal

Quantity	Product	Description
4	GLC-T=	1000BASE-T SFP
4	GLC-SX-MM=	GE SFP, LC connector SX transceiver

Appendix B: Hardware Requirements (Essentia Health – St. Joseph’s Brainerd Clinic)

Hardware: Cisco 2911 Router or approved equal

Quantity	Product	Description
1	CISCO2911-SEC/K9	Cisco 2911 Security Bundle w/SEC License PAK
1	MEM-2900-512U1GB	512MB to 1GB DRAM Upgrade (512MB+512MB) for 2901-2921
1	MEM-CF-256U512MB	256 to 512MB CF Upgrade Cisco 1900, 2900, 3900 ISR
1	HWIC-1GE-SFP	GigE High Speed WIC With One SFP Slot
2	VVIC2-2MFT-T1/E1	2-Port 2 nd Gen Multiflex Trunk Voice/Wan Int. Card – T1/E1
1	CAB-AC	AC Power Cord (North America) C13, NEMA 5-15P, 2.1m
1	CAB-Console-USB	Console Cable 6ft with USB Type A and mini-B
1	ISR-CCP-CD	Cisco Config Professional on CD, CCP-Express on Router Flash
1	S29UK9-15001M Cisco	2901-2921 IOS Universal
1	PWR-2911-AC	Cisco11AC Power Supply
1	SL-29-IB-K9	IP Base License for Cisco 2901-2951
1	SL-29-SEC-K9	Security License for Cisco 2901-2951
3	CON-SNT-2911SEC	SMARTnet 8x5xNBD Cisco2911 Security

Hardware: Cisco 3560X Series Switch or approved equal

Quantity	Product	Description
1	WS-3560X-48TS-S	Catalyst 3560X 48 48 Port Data IP Base
1	C3KX-NM-1G	Catalyst 3K-X 1G Network Module Option PID
1	CAB-CONSOLE-USB	Console Cable 6 ft with USB Type A and mini-B
1	S356XVK9T-12255SE	CAT 3560 IOS UNIVERSAL WITH WEB BASED DEV MGR
1	C3KX-PWR-350WAC/2	Catalyst 3K-X 350W AC Secondary Power Supply
1	CAB-SKX-AC	AC Power Cord for Catalyst 3K-X (North America)
3	CON-SNTP-3560X 4TS	SMARTnet 8x5xNBD Service

Hardware: Optics and GLC Connectors or approved equal

Quantity	Product	Description
4	GLC-T=	1000BASE-T SFP
4	GLC-SX-MM=	GE SFP, LC connector SX transceiver

Appendix B: Hardware Requirements (Essentia Health – St. Joseph’s Lakes Urology Clinic)

Hardware: Cisco 2911 Router or approved equal

Quantity	Product	Description
1	CISCO2911-SEC/K9	Cisco 2911 Security Bundle w/SEC License PAK
1	MEM-2900-512U1GB	512MB to 1GB DRAM Upgrade (512MB+512MB) for 2901-2921
1	MEM-CF-256U512MB	256 to 512MB CF Upgrade Cisco 1900, 2900, 3900 ISR
1	HWIC-1GE-SFP	GigE High Speed WIC With One SFP Slot
2	VVIC2-2MFT-T1/E1	2-Port 2 nd Gen Multiflex Trunk Voice/Wan Int. Card – T1/E1
1	CAB-AC	AC Power Cord (North America) C13, NEMA 5-15P, 2.1m
1	CAB-Console-USB	Console Cable 6ft with USB Type A and mini-B
1	ISR-CCP-CD	Cisco Config Professional on CD, CCP-Express on Router Flash
1	S29UK9-15001M Cisco	2901-2921 IOS Universal
1	PWR-2911-AC	Cisco11AC Power Supply
1	SL-29-IB-K9	IP Base License for Cisco 2901-2951
1	SL-29-SEC-K9	Security License for Cisco 2901-2951
3	CON-SNT-2911SEC	SMARTnet 8x5xNBD Cisco2911 Security

Hardware: Cisco 3560X Series Switch or approved equal

Quantity	Product	Description
1	WS-3560X-48TS-S	Catalyst 3560X 48 48 Port Data IP Base
1	C3KX-NM-1G	Catalyst 3K-X 1G Network Module Option PID
1	CAB-CONSOLE-USB	Console Cable 6 ft with USB Type A and mini-B
1	S356XVK9T-12255SE	CAT 3560 IOS UNIVERSAL WITH WEB BASED DEV MGR
1	C3KX-PWR-350WAC/2	Catalyst 3K-X 350W AC Secondary Power Supply
1	CAB-SKX-AC	AC Power Cord for Catalyst 3K-X (North America)
3	CON-SNTP-3560X 4TS	SMARTnet 8x5xNBD Service

Hardware: Optics and GLC Connectors or approved equal

Quantity	Product	Description
4	GLC-T=	1000BASE-T SFP
4	GLC-SX-MM=	GE SFP, LC connector SX transceiver

Appendix B: Hardware Requirements (Essentia Health – Casselton Clinic)

Hardware: Cisco 2911 Router or approved equal

Quantity	Product	Description
1	CISCO2911-SEC/K9	Cisco 2911 Security Bundle w/SEC License PAK
1	MEM-2900-512U1GB	512MB to 1GB DRAM Upgrade (512MB+512MB) for 2901-2921
1	MEM-CF-256U512MB	256 to 512MB CF Upgrade Cisco 1900, 2900, 3900 ISR
1	HWIC-1GE-SFP	GigE High Speed WIC With One SFP Slot
2	VVIC2-2MFT-T1/E1	2-Port 2 nd Gen Multiflex Trunk Voice/Wan Int. Card – T1/E1
1	CAB-AC	AC Power Cord (North America) C13, NEMA 5-15P, 2.1m
1	CAB-Console-USB	Console Cable 6ft with USB Type A and mini-B
1	ISR-CCP-CD	Cisco Config Professional on CD, CCP-Express on Router Flash
1	S29UK9-15001M Cisco	2901-2921 IOS Universal
1	PWR-2911-AC	Cisco11AC Power Supply
1	SL-29-IB-K9	IP Base License for Cisco 2901-2951
1	SL-29-SEC-K9	Security License for Cisco 2901-2951
3	CON-SNT-2911SEC	SMARTnet 8x5xNBD Cisco2911 Security

Hardware: Cisco 3560X Series Switch or approved equal

Quantity	Product	Description
1	WS-3560X-48TS-S	Catalyst 3560X 48 48 Port Data IP Base
1	C3KX-NM-1G	Catalyst 3K-X 1G Network Module Option PID
1	CAB-CONSOLE-USB	Console Cable 6 ft with USB Type A and mini-B
1	S356XVK9T-12255SE	CAT 3560 IOS UNIVERSAL WITH WEB BASED DEV MGR
1	C3KX-PWR-350WAC/2	Catalyst 3K-X 350W AC Secondary Power Supply
1	CAB-SKX-AC	AC Power Cord for Catalyst 3K-X (North America)
3	CON-SNTP-3560X 4TS	SMARTnet 8x5xNBD Service

Hardware: Optics and GLC Connectors or approved equal

Quantity	Product	Description
4	GLC-T=	1000BASE-T SFP
4	GLC-SX-MM=	GE SFP, LC connector SX transceiver

Appendix B: Hardware Requirements (Essentia Health – Chisholm Clinic)

Hardware: Cisco 2911 Router or approved equal

Quantity	Product	Description
1	CISCO2911-SEC/K9	Cisco 2911 Security Bundle w/SEC License PAK
1	MEM-2900-512U1GB	512MB to 1GB DRAM Upgrade (512MB+512MB) for 2901-2921
1	MEM-CF-256U512MB	256 to 512MB CF Upgrade Cisco 1900, 2900, 3900 ISR
1	HWIC-1GE-SFP	GigE High Speed WIC With One SFP Slot
2	VVIC2-2MFT-T1/E1	2-Port 2 nd Gen Multiflex Trunk Voice/Wan Int. Card – T1/E1
1	CAB-AC	AC Power Cord (North America) C13, NEMA 5-15P, 2.1m
1	CAB-Console-USB	Console Cable 6ft with USB Type A and mini-B
1	ISR-CCP-CD	Cisco Config Professional on CD, CCP-Express on Router Flash
1	S29UK9-15001M Cisco	2901-2921 IOS Universal
1	PWR-2911-AC	Cisco11AC Power Supply
1	SL-29-IB-K9	IP Base License for Cisco 2901-2951
1	SL-29-SEC-K9	Security License for Cisco 2901-2951
3	CON-SNT-2911SEC	SMARTnet 8x5xNBD Cisco2911 Security

Hardware: Cisco 3560X Series Switch or approved equal

Quantity	Product	Description
1	WS-3560X-48TS-S	Catalyst 3560X 48 48 Port Data IP Base
1	C3KX-NM-1G	Catalyst 3K-X 1G Network Module Option PID
1	CAB-CONSOLE-USB	Console Cable 6 ft with USB Type A and mini-B
1	S356XVK9T-12255SE	CAT 3560 IOS UNIVERSAL WITH WEB BASED DEV MGR
1	C3KX-PWR-350WAC/2	Catalyst 3K-X 350W AC Secondary Power Supply
1	CAB-SKX-AC	AC Power Cord for Catalyst 3K-X (North America)
3	CON-SNTP-3560X 4TS	SMARTnet 8x5xNBD Service

Hardware: Optics and GLC Connectors or approved equal

Quantity	Product	Description
4	GLC-T=	1000BASE-T SFP
4	GLC-SX-MM=	GE SFP, LC connector SX transceiver

Appendix B: Hardware Requirements (Essentia Health – Chokio Clinic)

Hardware: Cisco 2911 Router or approved equal

Quantity	Product	Description
1	CISCO2911-SEC/K9	Cisco 2911 Security Bundle w/SEC License PAK
1	MEM-2900-512U1GB	512MB to 1GB DRAM Upgrade (512MB+512MB) for 2901-2921
1	MEM-CF-256U512MB	256 to 512MB CF Upgrade Cisco 1900, 2900, 3900 ISR
1	HWIC-1GE-SFP	GigE High Speed WIC With One SFP Slot
2	VVIC2-2MFT-T1/E1	2-Port 2 nd Gen Multiflex Trunk Voice/Wan Int. Card – T1/E1
1	CAB-AC	AC Power Cord (North America) C13, NEMA 5-15P, 2.1m
1	CAB-Console-USB	Console Cable 6ft with USB Type A and mini-B
1	ISR-CCP-CD	Cisco Config Professional on CD, CCP-Express on Router Flash
1	S29UK9-15001M Cisco	2901-2921 IOS Universal
1	PWR-2911-AC	Cisco11AC Power Supply
1	SL-29-IB-K9	IP Base License for Cisco 2901-2951
1	SL-29-SEC-K9	Security License for Cisco 2901-2951
3	CON-SNT-2911SEC	SMARTnet 8x5xNBD Cisco2911 Security

Hardware: Cisco 3560X Series Switch or approved equal

Quantity	Product	Description
1	WS-3560X-48TS-S	Catalyst 3560X 48 48 Port Data IP Base
1	C3KX-NM-1G	Catalyst 3K-X 1G Network Module Option PID
1	CAB-CONSOLE-USB	Console Cable 6 ft with USB Type A and mini-B
1	S356XVK9T-12255SE	CAT 3560 IOS UNIVERSAL WITH WEB BASED DEV MGR
1	C3KX-PWR-350WAC/2	Catalyst 3K-X 350W AC Secondary Power Supply
1	CAB-SKX-AC	AC Power Cord for Catalyst 3K-X (North America)
3	CON-SNTP-3560X 4TS	SMARTnet 8x5xNBD Service

Hardware: Optics and GLC Connectors or approved equal

Quantity	Product	Description
4	GLC-T=	1000BASE-T SFP
4	GLC-SX-MM=	GE SFP, LC connector SX transceiver

Appendix B: Hardware Requirements (Essentia Health – St. Joseph’s Crosslake Clinic)

Hardware: Cisco 2911 Router or approved equal

Quantity	Product	Description
1	CISCO2911-SEC/K9	Cisco 2911 Security Bundle w/SEC License PAK
1	MEM-2900-512U1GB	512MB to 1GB DRAM Upgrade (512MB+512MB) for 2901-2921
1	MEM-CF-256U512MB	256 to 512MB CF Upgrade Cisco 1900, 2900, 3900 ISR
1	HWIC-1GE-SFP	GigE High Speed WIC With One SFP Slot
2	VVIC2-2MFT-T1/E1	2-Port 2 nd Gen Multiflex Trunk Voice/Wan Int. Card – T1/E1
1	CAB-AC	AC Power Cord (North America) C13, NEMA 5-15P, 2.1m
1	CAB-Console-USB	Console Cable 6ft with USB Type A and mini-B
1	ISR-CCP-CD	Cisco Config Professional on CD, CCP-Express on Router Flash
1	S29UK9-15001M Cisco	2901-2921 IOS Universal
1	PWR-2911-AC	Cisco11AC Power Supply
1	SL-29-IB-K9	IP Base License for Cisco 2901-2951
1	SL-29-SEC-K9	Security License for Cisco 2901-2951
3	CON-SNT-2911SEC	SMARTnet 8x5xNBD Cisco2911 Security

Hardware: Cisco 3560X Series Switch or approved equal

Quantity	Product	Description
1	WS-3560X-48TS-S	Catalyst 3560X 48 48 Port Data IP Base
1	C3KX-NM-1G	Catalyst 3K-X 1G Network Module Option PID
1	CAB-CONSOLE-USB	Console Cable 6 ft with USB Type A and mini-B
1	S356XVK9T-12255SE	CAT 3560 IOS UNIVERSAL WITH WEB BASED DEV MGR
1	C3KX-PWR-350WAC/2	Catalyst 3K-X 350W AC Secondary Power Supply
1	CAB-SKX-AC	AC Power Cord for Catalyst 3K-X (North America)
3	CON-SNTP-3560X 4TS	SMARTnet 8x5xNBD Service

Hardware: Optics and GLC Connectors or approved equal

Quantity	Product	Description
4	GLC-T=	1000BASE-T SFP
4	GLC-SX-MM=	GE SFP, LC connector SX transceiver

Appendix B: Hardware Requirements (Essentia Health – Deer River Clinic)

Hardware: Cisco 2911 Router or approved equal

Quantity	Product	Description
1	CISCO2911-SEC/K9	Cisco 2911 Security Bundle w/SEC License PAK
1	MEM-2900-512U1GB	512MB to 1GB DRAM Upgrade (512MB+512MB) for 2901-2921
1	MEM-CF-256U512MB	256 to 512MB CF Upgrade Cisco 1900, 2900, 3900 ISR
1	HWIC-1GE-SFP	GigE High Speed WIC With One SFP Slot
2	VVIC2-2MFT-T1/E1	2-Port 2 nd Gen Multiflex Trunk Voice/Wan Int. Card – T1/E1
1	CAB-AC	AC Power Cord (North America) C13, NEMA 5-15P, 2.1m
1	CAB-Console-USB	Console Cable 6ft with USB Type A and mini-B
1	ISR-CCP-CD	Cisco Config Professional on CD, CCP-Express on Router Flash
1	S29UK9-15001M Cisco	2901-2921 IOS Universal
1	PWR-2911-AC	Cisco11AC Power Supply
1	SL-29-IB-K9	IP Base License for Cisco 2901-2951
1	SL-29-SEC-K9	Security License for Cisco 2901-2951
3	CON-SNT-2911SEC	SMARTnet 8x5xNBD Cisco2911 Security

Hardware: Cisco 3560X Series Switch or approved equal

Quantity	Product	Description
1	WS-3560X-48TS-S	Catalyst 3560X 48 48 Port Data IP Base
1	C3KX-NM-1G	Catalyst 3K-X 1G Network Module Option PID
1	CAB-CONSOLE-USB	Console Cable 6 ft with USB Type A and mini-B
1	S356XVK9T-12255SE	CAT 3560 IOS UNIVERSAL WITH WEB BASED DEV MGR
1	C3KX-PWR-350WAC/2	Catalyst 3K-X 350W AC Secondary Power Supply
1	CAB-SKX-AC	AC Power Cord for Catalyst 3K-X (North America)
3	CON-SNTP-3560X 4TS	SMARTnet 8x5xNBD Service

Hardware: Optics and GLC Connectors or approved equal

Quantity	Product	Description
4	GLC-T=	1000BASE-T SFP
4	GLC-SX-MM=	GE SFP, LC connector SX transceiver

Appendix B: Hardware Requirements (Essentia Health – St. Mary’s Innovis Hospital)

Hardware: Cisco 2911 Router or approved equal

Quantity	Product	Description
1	CISCO2911-SEC/K9	Cisco 2911 Security Bundle w/SEC License PAK
1	MEM-2900-512U1GB	512MB to 1GB DRAM Upgrade (512MB+512MB) for 2901-2921
1	MEM-CF-256U512MB	256 to 512MB CF Upgrade Cisco 1900, 2900, 3900 ISR
1	HWIC-1GE-SFP	GigE High Speed WIC With One SFP Slot
2	VVIC2-2MFT-T1/E1	2-Port 2 nd Gen Multiflex Trunk Voice/Wan Int. Card – T1/E1
1	CAB-AC	AC Power Cord (North America) C13, NEMA 5-15P, 2.1m
1	CAB-Console-USB	Console Cable 6ft with USB Type A and mini-B
1	ISR-CCP-CD	Cisco Config Professional on CD, CCP-Express on Router Flash
1	S29UK9-15001M Cisco	2901-2921 IOS Universal
1	PWR-2911-AC	Cisco11AC Power Supply
1	SL-29-IB-K9	IP Base License for Cisco 2901-2951
1	SL-29-SEC-K9	Security License for Cisco 2901-2951
3	CON-SNT-2911SEC	SMARTnet 8x5xNBD Cisco2911 Security

Hardware: Cisco 3560X Series Switch or approved equal

Quantity	Product	Description
1	WS-3560X-48TS-S	Catalyst 3560X 48 48 Port Data IP Base
1	C3KX-NM-1G	Catalyst 3K-X 1G Network Module Option PID
1	CAB-CONSOLE-USB	Console Cable 6 ft with USB Type A and mini-B
1	S356XVK9T-12255SE	CAT 3560 IOS UNIVERSAL WITH WEB BASED DEV MGR
1	C3KX-PWR-350WAC/2	Catalyst 3K-X 350W AC Secondary Power Supply
1	CAB-SKX-AC	AC Power Cord for Catalyst 3K-X (North America)
3	CON-SNTP-3560X 4TS	SMARTnet 8x5xNBD Service

Hardware: Optics and GLC Connectors or approved equal

Quantity	Product	Description
4	GLC-T=	1000BASE-T SFP
4	GLC-SX-MM=	GE SFP, LC connector SX transceiver

Appendix B: Hardware Requirements (Essentia Health – Duluth Lakeside Clinic)

Hardware: Cisco 2911 Router or approved equal

Quantity	Product	Description
1	CISCO2911-SEC/K9	Cisco 2911 Security Bundle w/SEC License PAK
1	MEM-2900-512U1GB	512MB to 1GB DRAM Upgrade (512MB+512MB) for 2901-2921
1	MEM-CF-256U512MB	256 to 512MB CF Upgrade Cisco 1900, 2900, 3900 ISR
1	HWIC-1GE-SFP	GigE High Speed WIC With One SFP Slot
2	VVIC2-2MFT-T1/E1	2-Port 2 nd Gen Multiflex Trunk Voice/Wan Int. Card – T1/E1
1	CAB-AC	AC Power Cord (North America) C13, NEMA 5-15P, 2.1m
1	CAB-Console-USB	Console Cable 6ft with USB Type A and mini-B
1	ISR-CCP-CD	Cisco Config Professional on CD, CCP-Express on Router Flash
1	S29UK9-15001M Cisco	2901-2921 IOS Universal
1	PWR-2911-AC	Cisco11AC Power Supply
1	SL-29-IB-K9	IP Base License for Cisco 2901-2951
1	SL-29-SEC-K9	Security License for Cisco 2901-2951
3	CON-SNT-2911SEC	SMARTnet 8x5xNBD Cisco2911 Security

Hardware: Cisco 3560X Series Switch or approved equal

Quantity	Product	Description
1	WS-3560X-48TS-S	Catalyst 3560X 48 48 Port Data IP Base
1	C3KX-NM-1G	Catalyst 3K-X 1G Network Module Option PID
1	CAB-CONSOLE-USB	Console Cable 6 ft with USB Type A and mini-B
1	S356XVK9T-12255SE	CAT 3560 IOS UNIVERSAL WITH WEB BASED DEV MGR
1	C3KX-PWR-350WAC/2	Catalyst 3K-X 350W AC Secondary Power Supply
1	CAB-SKX-AC	AC Power Cord for Catalyst 3K-X (North America)
3	CON-SNTP-3560X 4TS	SMARTnet 8x5xNBD Service

Hardware: Optics and GLC Connectors or approved equal

Quantity	Product	Description
4	GLC-T=	1000BASE-T SFP
4	GLC-SX-MM=	GE SFP, LC connector SX transceiver

Appendix B: Hardware Requirements (Essentia Health – Duluth West Clinic)

Hardware: Cisco 2911 Router or approved equal

Quantity	Product	Description
1	CISCO2911-SEC/K9	Cisco 2911 Security Bundle w/SEC License PAK
1	MEM-2900-512U1GB	512MB to 1GB DRAM Upgrade (512MB+512MB) for 2901-2921
1	MEM-CF-256U512MB	256 to 512MB CF Upgrade Cisco 1900, 2900, 3900 ISR
1	HWIC-1GE-SFP	GigE High Speed WIC With One SFP Slot
2	VVIC2-2MFT-T1/E1	2-Port 2 nd Gen Multiflex Trunk Voice/Wan Int. Card – T1/E1
1	CAB-AC	AC Power Cord (North America) C13, NEMA 5-15P, 2.1m
1	CAB-Console-USB	Console Cable 6ft with USB Type A and mini-B
1	ISR-CCP-CD	Cisco Config Professional on CD, CCP-Express on Router Flash
1	S29UK9-15001M Cisco	2901-2921 IOS Universal
1	PWR-2911-AC	Cisco11AC Power Supply
1	SL-29-IB-K9	IP Base License for Cisco 2901-2951
1	SL-29-SEC-K9	Security License for Cisco 2901-2951
3	CON-SNT-2911SEC	SMARTnet 8x5xNBD Cisco2911 Security

Hardware: Cisco 3560X Series Switch or approved equal

Quantity	Product	Description
1	WS-3560X-48TS-S	Catalyst 3560X 48 48 Port Data IP Base
1	C3KX-NM-1G	Catalyst 3K-X 1G Network Module Option PID
1	CAB-CONSOLE-USB	Console Cable 6 ft with USB Type A and mini-B
1	S356XVK9T-12255SE	CAT 3560 IOS UNIVERSAL WITH WEB BASED DEV MGR
1	C3KX-PWR-350WAC/2	Catalyst 3K-X 350W AC Secondary Power Supply
1	CAB-SKX-AC	AC Power Cord for Catalyst 3K-X (North America)
3	CON-SNTP-3560X 4TS	SMARTnet 8x5xNBD Service

Hardware: Optics and GLC Connectors or approved equal

Quantity	Product	Description
4	GLC-T=	1000BASE-T SFP
4	GLC-SX-MM=	GE SFP, LC connector SX transceiver

Appendix B: Hardware Requirements (Essentia Health – Erskine Clinic)

Hardware: Cisco 2911 Router or approved equal

Quantity	Product	Description
1	CISCO2911-SEC/K9	Cisco 2911 Security Bundle w/SEC License PAK
1	MEM-2900-512U1GB	512MB to 1GB DRAM Upgrade (512MB+512MB) for 2901-2921
1	MEM-CF-256U512MB	256 to 512MB CF Upgrade Cisco 1900, 2900, 3900 ISR
1	HWIC-1GE-SFP	GigE High Speed WIC With One SFP Slot
2	VVIC2-2MFT-T1/E1	2-Port 2 nd Gen Multiflex Trunk Voice/Wan Int. Card – T1/E1
1	CAB-AC	AC Power Cord (North America) C13, NEMA 5-15P, 2.1m
1	CAB-Console-USB	Console Cable 6ft with USB Type A and mini-B
1	ISR-CCP-CD	Cisco Config Professional on CD, CCP-Express on Router Flash
1	S29UK9-15001M Cisco	2901-2921 IOS Universal
1	PWR-2911-AC	Cisco11AC Power Supply
1	SL-29-IB-K9	IP Base License for Cisco 2901-2951
1	SL-29-SEC-K9	Security License for Cisco 2901-2951
3	CON-SNT-2911SEC	SMARTnet 8x5xNBD Cisco2911 Security

Hardware: Cisco 3560X Series Switch or approved equal

Quantity	Product	Description
1	WS-3560X-48TS-S	Catalyst 3560X 48 48 Port Data IP Base
1	C3KX-NM-1G	Catalyst 3K-X 1G Network Module Option PID
1	CAB-CONSOLE-USB	Console Cable 6 ft with USB Type A and mini-B
1	S356XVK9T-12255SE	CAT 3560 IOS UNIVERSAL WITH WEB BASED DEV MGR
1	C3KX-PWR-350WAC/2	Catalyst 3K-X 350W AC Secondary Power Supply
1	CAB-SKX-AC	AC Power Cord for Catalyst 3K-X (North America)
3	CON-SNTP-3560X 4TS	SMARTnet 8x5xNBD Service

Hardware: Optics and GLC Connectors or approved equal

Quantity	Product	Description
4	GLC-T=	1000BASE-T SFP
4	GLC-SX-MM=	GE SFP, LC connector SX transceiver

Appendix A: Hardware Requirements (Essentia Health – Fargo 32nd Avenue Clinic)

Hardware: Cisco ASR1004 Router or approved equal (POP Location)

Quantity	Product	Description
1	ASR1004	Cisco ASR1004 Chassis, Dual P/S
2	ASR1000-ESP10	Cisco ASR1000 Embedded Services Processor 10G, Crypto
1	ASR1000-RP1	Cisco ASR1000 Route Processor 1, 2GB DRAM
1	M-ASR1K-RP-4GB	Cisco ASR1000 RP1 4GB DRAM
1	M-ASR1K-HDD-40GB	Cisco ASR1000 RP1 40GB HDD
1	ASR1000-RP1	Cisco ASR1000 Route Processor 1, 2GB DRAM
1	M-ASR1K-RP-4GB	Cisco ASR1000 RP1 4GB DRAM
1	M-ASR1K-HDD-40GB	Cisco ASR1000 RP1 40GB HDD
1	ASR1000-SIP10	Cisco ASR-1000 SPA Interface Processor 10
1	MEMUSB-1024FT	1GB USB Flash Token for Cisco ASR 1000 Series
1	SASR1R1-AESK9-26SR	Cisco ASR 1000 Series RP1 Advanced Enterprise Services
2	SPA-8XCHT1/E1	Cisco 8-port Channelized T1/E1 Shared Port Adapter
1	SPA-8X1GE-V2	Cisco 8-port Gigabit Ethernet Shared Port Adapter, Version 2
1	SPA-2XCT3/DS0	2-port Channelized T3 to DS0 Shared Port Adapter
2	ASR1004-PWR-AC	Cisco ASR1004 AC Power Supply
2	CAB-AC-RA	Power Cord, 110V, Right Angle
1	ASR1000-Rack Kit	Cisco Rack Kit for ASR1000
1	ASR1000-SPA	SPA for ASR1000, No Physical Part, For Tracking Only
1	ASR1000-SPA	SPA for ASR1000, No Physical Part, For Tracking Only
1	ASR1000-SPA	SPA for ASR1000, No Physical Part, For Tracking Only
6	CON-SNTP-ASRESP10	SMARTNET 24X7X4 Cisco ASR1000 Embedded Services Processor
3	CON-SNTP-ASRRP1	SMARTNET 24X7X4 Cisco ASR1000 Route Processor 1,2GB DRAM
3	CON-SNTP-ASRRP1	SMARTNET 24X7X4 Cisco ASR1000 Route Processor 1,2GB DRAM
3	CON-SNTP-ASRSIP10	SMARTNET 24X7X4 Cisco ASR1000 SPA Interface Processor 10
3	CON-SNTP-ASR1K4	SMARTNET 24X7X4 Cisco ASR1004 Chassis, Dual P/S
3	CON-SNTP-ASRAISK	SMARTNET 24X7X4 Cisco ASR1000 Series RP1 ADV ENT SERVICE
3	CON-SNTP-8X1GEV2	SMARTNET 24X7X4 8-Port Gigabit Ethernet Shared Port Adapter
6	CON-SNTP-8XCHT1E1	SMARTNET 24X7X4 8Prt Channel T1/E1
3	CON-SNTP-2XCT3DSO	SMARTNET 24X7X4 2-port Channelized T3 to DS0 Shared

Hardware: Cisco 3560X Series Switch or approved equal (POP Location)

Quantity	Product	Description
1	WS-3560X-48TS-S	Catalyst 3560X 48 48 Port Data IP Base
2	C3KX-PWR-350WAC/2	Catalyst 3K-X 350W AC Secondary Power Supply
1	C3KX-NM-1G	Catalyst 3K-X 1G Network Module Option PID
2	CAB-SKX-AC	AC Power Cord for Catalyst 3K-X (North America)
1	CAB-CONSOLE-USB	Console Cable 6 ft with USB Type A and mini-B
1	S356XVK9T-12255SE	CAT 3560 IOS UNIVERSAL WITH WEB BASED DEV MGR
3	CON-SNTP-3560X 4TS	SMARTnet 24x7x4 Service

Hardware: Cisco ASA5520 Firewalls or approved equal (POP Location)

Quantity	Product	Description
1	ASA5520-BUN-K9	ASA 5520 Appliance with SW, HA, 4GE+1FE, 3DES/AES
1	CAB-AC	AC Power Cord (North America), C13, NEMA 5-15P, 2.1m
1	SF-ASA-7.0-K8	ASA 5500 Series Software v7.0
1	ASA5520-VPN-PL	ASA 5520 VPN Plus 750 IPsec License
1	ASA5500-ENCR-K9	ASA 5500 Strong Encryption License (3DES/AES)
1	ASA-VPN-CLNT-K9	Cisco VPN Client Software (Windows, Solaris, Linux, Mac)
1	SSM-BLANK	ASA/IPS SSM Slot Cover
1	ASA-180W-PWR-AC	ASA 180W AC Power Supply
3	CON-SNT-AS2BUNK9	SMARTNET 8X5XNBD ASA5520 w/300 VPN Prs, 4GE+1FE,3DES/AES

Hardware: Optics and GLC Connectors or approved equal (POP Location)

Quantity	Product	Description
8	GLC-T=	1000BASE-T SFP
8	GLC-SX-MM=	GE SFP, LC connector SX transceiver

Appendix B: Hardware Requirements (Essentia Health – Fosston First Care Medical Services)

Hardware: Cisco 2911 Router or approved equal

Quantity	Product	Description
1	CISCO2911-SEC/K9	Cisco 2911 Security Bundle w/SEC License PAK
1	MEM-2900-512U1GB	512MB to 1GB DRAM Upgrade (512MB+512MB) for 2901-2921
1	MEM-CF-256U512MB	256 to 512MB CF Upgrade Cisco 1900, 2900, 3900 ISR
1	HWIC-1GE-SFP	GigE High Speed WIC With One SFP Slot
2	VVIC2-2MFT-T1/E1	2-Port 2 nd Gen Multiflex Trunk Voice/Wan Int. Card – T1/E1
1	CAB-AC	AC Power Cord (North America) C13, NEMA 5-15P, 2.1m
1	CAB-Console-USB	Console Cable 6ft with USB Type A and mini-B
1	ISR-CCP-CD	Cisco Config Professional on CD, CCP-Express on Router Flash
1	S29UK9-15001M Cisco	2901-2921 IOS Universal
1	PWR-2911-AC	Cisco11AC Power Supply
1	SL-29-IB-K9	IP Base License for Cisco 2901-2951
1	SL-29-SEC-K9	Security License for Cisco 2901-2951
3	CON-SNT-2911SEC	SMARTnet 8x5xNBD Cisco2911 Security

Hardware: Cisco 3560X Series Switch or approved equal

Quantity	Product	Description
1	WS-3560X-48TS-S	Catalyst 3560X 48 48 Port Data IP Base
1	C3KX-NM-1G	Catalyst 3K-X 1G Network Module Option PID
1	CAB-CONSOLE-USB	Console Cable 6 ft with USB Type A and mini-B
1	S356XVK9T-12255SE	CAT 3560 IOS UNIVERSAL WITH WEB BASED DEV MGR
1	C3KX-PWR-350WAC/2	Catalyst 3K-X 350W AC Secondary Power Supply
1	CAB-SKX-AC	AC Power Cord for Catalyst 3K-X (North America)
3	CON-SNTP-3560X 4TS	SMARTnet 8x5xNBD Service

Hardware: Optics and GLC Connectors or approved equal

Quantity	Product	Description
4	GLC-T=	1000BASE-T SFP
4	GLC-SX-MM=	GE SFP, LC connector SX transceiver

Appendix B: Hardware Requirements (Essentia Health – St. Mary’s Frazee Clinic)

Hardware: Cisco 2911 Router or approved equal

Quantity	Product	Description
1	CISCO2911-SEC/K9	Cisco 2911 Security Bundle w/SEC License PAK
1	MEM-2900-512U1GB	512MB to 1GB DRAM Upgrade (512MB+512MB) for 2901-2921
1	MEM-CF-256U512MB	256 to 512MB CF Upgrade Cisco 1900, 2900, 3900 ISR
1	HWIC-1GE-SFP	GigE High Speed WIC With One SFP Slot
2	VWIC2-2MFT-T1/E1	2-Port 2 nd Gen Multiflex Trunk Voice/Wan Int. Card – T1/E1
1	CAB-AC	AC Power Cord (North America) C13, NEMA 5-15P, 2.1m
1	CAB-Console-USB	Console Cable 6ft with USB Type A and mini-B
1	ISR-CCP-CD	Cisco Config Professional on CD, CCP-Express on Router Flash
1	S29UK9-15001M Cisco	2901-2921 IOS Universal
1	PWR-2911-AC	Cisco11AC Power Supply
1	SL-29-IB-K9	IP Base License for Cisco 2901-2951
1	SL-29-SEC-K9	Security License for Cisco 2901-2951
3	CON-SNT-2911SEC	SMARTnet 8x5xNBD Cisco2911 Security

Hardware: Cisco 3560X Series Switch or approved equal

Quantity	Product	Description
1	WS-3560X-48TS-S	Catalyst 3560X 48 48 Port Data IP Base
1	C3KX-NM-1G	Catalyst 3K-X 1G Network Module Option PID
1	CAB-CONSOLE-USB	Console Cable 6 ft with USB Type A and mini-B
1	S356XVK9T-12255SE	CAT 3560 IOS UNIVERSAL WITH WEB BASED DEV MGR
1	C3KX-PWR-350WAC/2	Catalyst 3K-X 350W AC Secondary Power Supply
1	CAB-SKX-AC	AC Power Cord for Catalyst 3K-X (North America)
3	CON-SNTP-3560X 4TS	SMARTnet 8x5xNBD Service

Hardware: Optics and GLC Connectors or approved equal

Quantity	Product	Description
4	GLC-T=	1000BASE-T SFP
4	GLC-SX-MM=	GE SFP, LC connector SX transceiver

Appendix B: Hardware Requirements (Essentia Health – Holy Trinity Hospital)

Hardware: Cisco 2911 Router or approved equal

Quantity	Product	Description
1	CISCO2911-SEC/K9	Cisco 2911 Security Bundle w/SEC License PAK
1	MEM-2900-512U1GB	512MB to 1GB DRAM Upgrade (512MB+512MB) for 2901-2921
1	MEM-CF-256U512MB	256 to 512MB CF Upgrade Cisco 1900, 2900, 3900 ISR
1	HWIC-1GE-SFP	GigE High Speed WIC With One SFP Slot
2	VWIC2-2MFT-T1/E1	2-Port 2 nd Gen Multiflex Trunk Voice/Wan Int. Card – T1/E1
1	CAB-AC	AC Power Cord (North America) C13, NEMA 5-15P, 2.1m
1	CAB-Console-USB	Console Cable 6ft with USB Type A and mini-B
1	ISR-CCP-CD	Cisco Config Professional on CD, CCP-Express on Router Flash
1	S29UK9-15001M Cisco	2901-2921 IOS Universal
1	PWR-2911-AC	Cisco11AC Power Supply
1	SL-29-IB-K9	IP Base License for Cisco 2901-2951
1	SL-29-SEC-K9	Security License for Cisco 2901-2951
3	CON-SNT-2911SEC	SMARTnet 8x5xNBD Cisco2911 Security

Hardware: Cisco 3560X Series Switch or approved equal

Quantity	Product	Description
1	WS-3560X-48TS-S	Catalyst 3560X 48 48 Port Data IP Base
1	C3KX-NM-1G	Catalyst 3K-X 1G Network Module Option PID
1	CAB-CONSOLE-USB	Console Cable 6 ft with USB Type A and mini-B
1	S356XVK9T-12255SE	CAT 3560 IOS UNIVERSAL WITH WEB BASED DEV MGR
1	C3KX-PWR-350WAC/2	Catalyst 3K-X 350W AC Secondary Power Supply
1	CAB-SKX-AC	AC Power Cord for Catalyst 3K-X (North America)
3	CON-SNTP-3560X 4TS	SMARTnet 8x5xNBD Service

Hardware: Optics and GLC Connectors or approved equal

Quantity	Product	Description
4	GLC-T=	1000BASE-T SFP
4	GLC-SX-MM=	GE SFP, LC connector SX transceiver

Appendix B: Hardware Requirements (Essentia Health – Hackensack Clinic)

Hardware: Cisco 2911 Router or approved equal

Quantity	Product	Description
1	CISCO2911-SEC/K9	Cisco 2911 Security Bundle w/SEC License PAK
1	MEM-2900-512U1GB	512MB to 1GB DRAM Upgrade (512MB+512MB) for 2901-2921
1	MEM-CF-256U512MB	256 to 512MB CF Upgrade Cisco 1900, 2900, 3900 ISR
1	HWIC-1GE-SFP	GigE High Speed WIC With One SFP Slot
2	VWIC2-2MFT-T1/E1	2-Port 2 nd Gen Multiflex Trunk Voice/Wan Int. Card – T1/E1
1	CAB-AC	AC Power Cord (North America) C13, NEMA 5-15P, 2.1m
1	CAB-Console-USB	Console Cable 6ft with USB Type A and mini-B
1	ISR-CCP-CD	Cisco Config Professional on CD, CCP-Express on Router Flash
1	S29UK9-15001M Cisco	2901-2921 IOS Universal
1	PWR-2911-AC	Cisco11AC Power Supply
1	SL-29-IB-K9	IP Base License for Cisco 2901-2951
1	SL-29-SEC-K9	Security License for Cisco 2901-2951
3	CON-SNT-2911SEC	SMARTnet 8x5xNBD Cisco2911 Security

Hardware: Cisco 3560X Series Switch or approved equal

Quantity	Product	Description
1	WS-3560X-48TS-S	Catalyst 3560X 48 48 Port Data IP Base
1	C3KX-NM-1G	Catalyst 3K-X 1G Network Module Option PID
1	CAB-CONSOLE-USB	Console Cable 6 ft with USB Type A and mini-B
1	S356XVK9T-12255SE	CAT 3560 IOS UNIVERSAL WITH WEB BASED DEV MGR
1	C3KX-PWR-350WAC/2	Catalyst 3K-X 350W AC Secondary Power Supply
1	CAB-SKX-AC	AC Power Cord for Catalyst 3K-X (North America)
3	CON-SNTP-3560X 4TS	SMARTnet 8x5xNBD Service

Hardware: Optics and GLC Connectors or approved equal

Quantity	Product	Description
4	GLC-T=	1000BASE-T SFP
4	GLC-SX-MM=	GE SFP, LC connector SX transceiver

Appendix B: Hardware Requirements (Essentia Health – Hankinson Clinic)

Hardware: Cisco 2911 Router or approved equal

Quantity	Product	Description
1	CISCO2911-SEC/K9	Cisco 2911 Security Bundle w/SEC License PAK
1	MEM-2900-512U1GB	512MB to 1GB DRAM Upgrade (512MB+512MB) for 2901-2921
1	MEM-CF-256U512MB	256 to 512MB CF Upgrade Cisco 1900, 2900, 3900 ISR
1	HWIC-1GE-SFP	GigE High Speed WIC With One SFP Slot
2	VWIC2-2MFT-T1/E1	2-Port 2 nd Gen Multiflex Trunk Voice/Wan Int. Card – T1/E1
1	CAB-AC	AC Power Cord (North America) C13, NEMA 5-15P, 2.1m
1	CAB-Console-USB	Console Cable 6ft with USB Type A and mini-B
1	ISR-CCP-CD	Cisco Config Professional on CD, CCP-Express on Router Flash
1	S29UK9-15001M Cisco	2901-2921 IOS Universal
1	PWR-2911-AC	Cisco11AC Power Supply
1	SL-29-IB-K9	IP Base License for Cisco 2901-2951
1	SL-29-SEC-K9	Security License for Cisco 2901-2951
3	CON-SNT-2911SEC	SMARTnet 8x5xNBD Cisco2911 Security

Hardware: Cisco 3560X Series Switch or approved equal

Quantity	Product	Description
1	WS-3560X-48TS-S	Catalyst 3560X 48 48 Port Data IP Base
1	C3KX-NM-1G	Catalyst 3K-X 1G Network Module Option PID
1	CAB-CONSOLE-USB	Console Cable 6 ft with USB Type A and mini-B
1	S356XVK9T-12255SE	CAT 3560 IOS UNIVERSAL WITH WEB BASED DEV MGR
1	C3KX-PWR-350WAC/2	Catalyst 3K-X 350W AC Secondary Power Supply
1	CAB-SKX-AC	AC Power Cord for Catalyst 3K-X (North America)
3	CON-SNTP-3560X 4TS	SMARTnet 8x5xNBD Service

Hardware: Optics and GLC Connectors or approved equal

Quantity	Product	Description
4	GLC-T=	1000BASE-T SFP
4	GLC-SX-MM=	GE SFP, LC connector SX transceiver

Appendix B: Hardware Requirements (Essentia Health – Hermantown Clinic)

Hardware: Cisco 2911 Router or approved equal

Quantity	Product	Description
1	CISCO2911-SEC/K9	Cisco 2911 Security Bundle w/SEC License PAK
1	MEM-2900-512U1GB	512MB to 1GB DRAM Upgrade (512MB+512MB) for 2901-2921
1	MEM-CF-256U512MB	256 to 512MB CF Upgrade Cisco 1900, 2900, 3900 ISR
1	HWIC-1GE-SFP	GigE High Speed WIC With One SFP Slot
2	VWIC2-2MFT-T1/E1	2-Port 2 nd Gen Multiflex Trunk Voice/Wan Int. Card – T1/E1
1	CAB-AC	AC Power Cord (North America) C13, NEMA 5-15P, 2.1m
1	CAB-Console-USB	Console Cable 6ft with USB Type A and mini-B
1	ISR-CCP-CD	Cisco Config Professional on CD, CCP-Express on Router Flash
1	S29UK9-15001M Cisco	2901-2921 IOS Universal
1	PWR-2911-AC	Cisco11AC Power Supply
1	SL-29-IB-K9	IP Base License for Cisco 2901-2951
1	SL-29-SEC-K9	Security License for Cisco 2901-2951
3	CON-SNT-2911SEC	SMARTnet 8x5xNBD Cisco2911 Security

Hardware: Cisco 3560X Series Switch or approved equal

Quantity	Product	Description
1	WS-3560X-48TS-S	Catalyst 3560X 48 48 Port Data IP Base
1	C3KX-NM-1G	Catalyst 3K-X 1G Network Module Option PID
1	CAB-CONSOLE-USB	Console Cable 6 ft with USB Type A and mini-B
1	S356XVK9T-12255SE	CAT 3560 IOS UNIVERSAL WITH WEB BASED DEV MGR
1	C3KX-PWR-350WAC/2	Catalyst 3K-X 350W AC Secondary Power Supply
1	CAB-SKX-AC	AC Power Cord for Catalyst 3K-X (North America)
3	CON-SNTP-3560X 4TS	SMARTnet 8x5xNBD Service

Hardware: Optics and GLC Connectors or approved equal

Quantity	Product	Description
4	GLC-T=	1000BASE-T SFP
4	GLC-SX-MM=	GE SFP, LC connector SX transceiver

Appendix B: Hardware Requirements (Essentia Health – Hibbing Clinic)

Hardware: Cisco 2911 Router or approved equal

Quantity	Product	Description
1	CISCO2911-SEC/K9	Cisco 2911 Security Bundle w/SEC License PAK
1	MEM-2900-512U1GB	512MB to 1GB DRAM Upgrade (512MB+512MB) for 2901-2921
1	MEM-CF-256U512MB	256 to 512MB CF Upgrade Cisco 1900, 2900, 3900 ISR
1	HWIC-1GE-SFP	GigE High Speed WIC With One SFP Slot
2	VWIC2-2MFT-T1/E1	2-Port 2 nd Gen Multiflex Trunk Voice/Wan Int. Card – T1/E1
1	CAB-AC	AC Power Cord (North America) C13, NEMA 5-15P, 2.1m
1	CAB-Console-USB	Console Cable 6ft with USB Type A and mini-B
1	ISR-CCP-CD	Cisco Config Professional on CD, CCP-Express on Router Flash
1	S29UK9-15001M Cisco	2901-2921 IOS Universal
1	PWR-2911-AC	Cisco11AC Power Supply
1	SL-29-IB-K9	IP Base License for Cisco 2901-2951
1	SL-29-SEC-K9	Security License for Cisco 2901-2951
3	CON-SNT-2911SEC	SMARTnet 8x5xNBD Cisco2911 Security

Hardware: Cisco 3560X Series Switch or approved equal

Quantity	Product	Description
1	WS-3560X-48TS-S	Catalyst 3560X 48 48 Port Data IP Base
1	C3KX-NM-1G	Catalyst 3K-X 1G Network Module Option PID
1	CAB-CONSOLE-USB	Console Cable 6 ft with USB Type A and mini-B
1	S356XVK9T-12255SE	CAT 3560 IOS UNIVERSAL WITH WEB BASED DEV MGR
1	C3KX-PWR-350WAC/2	Catalyst 3K-X 350W AC Secondary Power Supply
1	CAB-SKX-AC	AC Power Cord for Catalyst 3K-X (North America)
3	CON-SNTP-3560X 4TS	SMARTnet 8x5xNBD Service

Hardware: Optics and GLC Connectors or approved equal

Quantity	Product	Description
4	GLC-T=	1000BASE-T SFP
4	GLC-SX-MM=	GE SFP, LC connector SX transceiver

Appendix B: Hardware Requirements (Essentia Health – Jamestown Clinic)

Hardware: Cisco 2911 Router or approved equal

Quantity	Product	Description
1	CISCO2911-SEC/K9	Cisco 2911 Security Bundle w/SEC License PAK
1	MEM-2900-512U1GB	512MB to 1GB DRAM Upgrade (512MB+512MB) for 2901-2921
1	MEM-CF-256U512MB	256 to 512MB CF Upgrade Cisco 1900, 2900, 3900 ISR
1	HWIC-1GE-SFP	GigE High Speed WIC With One SFP Slot
2	VWIC2-2MFT-T1/E1	2-Port 2 nd Gen Multiflex Trunk Voice/Wan Int. Card – T1/E1
1	CAB-AC	AC Power Cord (North America) C13, NEMA 5-15P, 2.1m
1	CAB-Console-USB	Console Cable 6ft with USB Type A and mini-B
1	ISR-CCP-CD	Cisco Config Professional on CD, CCP-Express on Router Flash
1	S29UK9-15001M Cisco	2901-2921 IOS Universal
1	PWR-2911-AC	Cisco11AC Power Supply
1	SL-29-IB-K9	IP Base License for Cisco 2901-2951
1	SL-29-SEC-K9	Security License for Cisco 2901-2951
3	CON-SNT-2911SEC	SMARTnet 8x5xNBD Cisco2911 Security

Hardware: Cisco 3560X Series Switch or approved equal

Quantity	Product	Description
1	WS-3560X-48TS-S	Catalyst 3560X 48 48 Port Data IP Base
1	C3KX-NM-1G	Catalyst 3K-X 1G Network Module Option PID
1	CAB-CONSOLE-USB	Console Cable 6 ft with USB Type A and mini-B
1	S356XVK9T-12255SE	CAT 3560 IOS UNIVERSAL WITH WEB BASED DEV MGR
1	C3KX-PWR-350WAC/2	Catalyst 3K-X 350W AC Secondary Power Supply
1	CAB-SKX-AC	AC Power Cord for Catalyst 3K-X (North America)
3	CON-SNTP-3560X 4TS	SMARTnet 8x5xNBD Service

Hardware: Optics and GLC Connectors or approved equal

Quantity	Product	Description
4	GLC-T=	1000BASE-T SFP
4	GLC-SX-MM=	GE SFP, LC connector SX transceiver

Appendix B: Hardware Requirements (Essentia Health – St. Mary’s Lake Park Clinic)

Hardware: Cisco 2911 Router or approved equal

Quantity	Product	Description
1	CISCO2911-SEC/K9	Cisco 2911 Security Bundle w/SEC License PAK
1	MEM-2900-512U1GB	512MB to 1GB DRAM Upgrade (512MB+512MB) for 2901-2921
1	MEM-CF-256U512MB	256 to 512MB CF Upgrade Cisco 1900, 2900, 3900 ISR
1	HWIC-1GE-SFP	GigE High Speed WIC With One SFP Slot
2	VVIC2-2MFT-T1/E1	2-Port 2 nd Gen Multiflex Trunk Voice/Wan Int. Card – T1/E1
1	CAB-AC	AC Power Cord (North America) C13, NEMA 5-15P, 2.1m
1	CAB-Console-USB	Console Cable 6ft with USB Type A and mini-B
1	ISR-CCP-CD	Cisco Config Professional on CD, CCP-Express on Router Flash
1	S29UK9-15001M Cisco	2901-2921 IOS Universal
1	PWR-2911-AC	Cisco11AC Power Supply
1	SL-29-IB-K9	IP Base License for Cisco 2901-2951
1	SL-29-SEC-K9	Security License for Cisco 2901-2951
3	CON-SNT-2911SEC	SMARTnet 8x5xNBD Cisco2911 Security

Hardware: Cisco 3560X Series Switch or approved equal

Quantity	Product	Description
1	WS-3560X-48TS-S	Catalyst 3560X 48 48 Port Data IP Base
1	C3KX-NM-1G	Catalyst 3K-X 1G Network Module Option PID
1	CAB-CONSOLE-USB	Console Cable 6 ft with USB Type A and mini-B
1	S356XVK9T-12255SE	CAT 3560 IOS UNIVERSAL WITH WEB BASED DEV MGR
1	C3KX-PWR-350WAC/2	Catalyst 3K-X 350W AC Secondary Power Supply
1	CAB-SKX-AC	AC Power Cord for Catalyst 3K-X (North America)
3	CON-SNTP-3560X 4TS	SMARTnet 8x5xNBD Service

Hardware: Optics and GLC Connectors or approved equal

Quantity	Product	Description
4	GLC-T=	1000BASE-T SFP
4	GLC-SX-MM=	GE SFP, LC connector SX transceiver

Appendix B: Hardware Requirements (Essentia Health – Lisbon Clinic)

Hardware: Cisco 2911 Router or approved equal

Quantity	Product	Description
1	CISCO2911-SEC/K9	Cisco 2911 Security Bundle w/SEC License PAK
1	MEM-2900-512U1GB	512MB to 1GB DRAM Upgrade (512MB+512MB) for 2901-2921
1	MEM-CF-256U512MB	256 to 512MB CF Upgrade Cisco 1900, 2900, 3900 ISR
1	HWIC-1GE-SFP	GigE High Speed WIC With One SFP Slot
2	VWIC2-2MFT-T1/E1	2-Port 2 nd Gen Multiflex Trunk Voice/Wan Int. Card – T1/E1
1	CAB-AC	AC Power Cord (North America) C13, NEMA 5-15P, 2.1m
1	CAB-Console-USB	Console Cable 6ft with USB Type A and mini-B
1	ISR-CCP-CD	Cisco Config Professional on CD, CCP-Express on Router Flash
1	S29UK9-15001M Cisco	2901-2921 IOS Universal
1	PWR-2911-AC	Cisco11AC Power Supply
1	SL-29-IB-K9	IP Base License for Cisco 2901-2951
1	SL-29-SEC-K9	Security License for Cisco 2901-2951
3	CON-SNT-2911SEC	SMARTnet 8x5xNBD Cisco2911 Security

Hardware: Cisco 3560X Series Switch or approved equal

Quantity	Product	Description
1	WS-3560X-48TS-S	Catalyst 3560X 48 48 Port Data IP Base
1	C3KX-NM-1G	Catalyst 3K-X 1G Network Module Option PID
1	CAB-CONSOLE-USB	Console Cable 6 ft with USB Type A and mini-B
1	S356XVK9T-12255SE	CAT 3560 IOS UNIVERSAL WITH WEB BASED DEV MGR
1	C3KX-PWR-350WAC/2	Catalyst 3K-X 350W AC Secondary Power Supply
1	CAB-SKX-AC	AC Power Cord for Catalyst 3K-X (North America)
3	CON-SNTP-3560X 4TS	SMARTnet 8x5xNBD Service

Hardware: Optics and GLC Connectors or approved equal

Quantity	Product	Description
4	GLC-T=	1000BASE-T SFP
4	GLC-SX-MM=	GE SFP, LC connector SX transceiver

Appendix B: Hardware Requirements (Essentia Health – Mahnomen Clinic)

Hardware: Cisco 2911 Router or approved equal

Quantity	Product	Description
1	CISCO2911-SEC/K9	Cisco 2911 Security Bundle w/SEC License PAK
1	MEM-2900-512U1GB	512MB to 1GB DRAM Upgrade (512MB+512MB) for 2901-2921
1	MEM-CF-256U512MB	256 to 512MB CF Upgrade Cisco 1900, 2900, 3900 ISR
1	HWIC-1GE-SFP	GigE High Speed WIC With One SFP Slot
2	VWIC2-2MFT-T1/E1	2-Port 2 nd Gen Multiflex Trunk Voice/Wan Int. Card – T1/E1
1	CAB-AC	AC Power Cord (North America) C13, NEMA 5-15P, 2.1m
1	CAB-Console-USB	Console Cable 6ft with USB Type A and mini-B
1	ISR-CCP-CD	Cisco Config Professional on CD, CCP-Express on Router Flash
1	S29UK9-15001M Cisco	2901-2921 IOS Universal
1	PWR-2911-AC	Cisco11AC Power Supply
1	SL-29-IB-K9	IP Base License for Cisco 2901-2951
1	SL-29-SEC-K9	Security License for Cisco 2901-2951
3	CON-SNT-2911SEC	SMARTnet 8x5xNBD Cisco2911 Security

Hardware: Cisco 3560X Series Switch or approved equal

Quantity	Product	Description
1	WS-3560X-48TS-S	Catalyst 3560X 48 48 Port Data IP Base
1	C3KX-NM-1G	Catalyst 3K-X 1G Network Module Option PID
1	CAB-CONSOLE-USB	Console Cable 6 ft with USB Type A and mini-B
1	S356XVK9T-12255SE	CAT 3560 IOS UNIVERSAL WITH WEB BASED DEV MGR
1	C3KX-PWR-350WAC/2	Catalyst 3K-X 350W AC Secondary Power Supply
1	CAB-SKX-AC	AC Power Cord for Catalyst 3K-X (North America)
3	CON-SNTP-3560X 4TS	SMARTnet 8x5xNBD Service

Hardware: Optics and GLC Connectors or approved equal

Quantity	Product	Description
4	GLC-T=	1000BASE-T SFP
4	GLC-SX-MM=	GE SFP, LC connector SX transceiver

Appendix B: Hardware Requirements (Essentia Health – Medina Clinic)

Hardware: Cisco 2911 Router or approved equal

Quantity	Product	Description
1	CISCO2911-SEC/K9	Cisco 2911 Security Bundle w/SEC License PAK
1	MEM-2900-512U1GB	512MB to 1GB DRAM Upgrade (512MB+512MB) for 2901-2921
1	MEM-CF-256U512MB	256 to 512MB CF Upgrade Cisco 1900, 2900, 3900 ISR
1	HWIC-1GE-SFP	GigE High Speed WIC With One SFP Slot
2	VWIC2-2MFT-T1/E1	2-Port 2 nd Gen Multiflex Trunk Voice/Wan Int. Card – T1/E1
1	CAB-AC	AC Power Cord (North America) C13, NEMA 5-15P, 2.1m
1	CAB-Console-USB	Console Cable 6ft with USB Type A and mini-B
1	ISR-CCP-CD	Cisco Config Professional on CD, CCP-Express on Router Flash
1	S29UK9-15001M Cisco	2901-2921 IOS Universal
1	PWR-2911-AC	Cisco11AC Power Supply
1	SL-29-IB-K9	IP Base License for Cisco 2901-2951
1	SL-29-SEC-K9	Security License for Cisco 2901-2951
3	CON-SNT-2911SEC	SMARTnet 8x5xNBD Cisco2911 Security

Hardware: Cisco 3560X Series Switch or approved equal

Quantity	Product	Description
1	WS-3560X-48TS-S	Catalyst 3560X 48 48 Port Data IP Base
1	C3KX-NM-1G	Catalyst 3K-X 1G Network Module Option PID
1	CAB-CONSOLE-USB	Console Cable 6 ft with USB Type A and mini-B
1	S356XVK9T-12255SE	CAT 3560 IOS UNIVERSAL WITH WEB BASED DEV MGR
1	C3KX-PWR-350WAC/2	Catalyst 3K-X 350W AC Secondary Power Supply
1	CAB-SKX-AC	AC Power Cord for Catalyst 3K-X (North America)
3	CON-SNTP-3560X 4TS	SMARTnet 8x5xNBD Service

Hardware: Optics and GLC Connectors or approved equal

Quantity	Product	Description
4	GLC-T=	1000BASE-T SFP
4	GLC-SX-MM=	GE SFP, LC connector SX transceiver

Appendix B: Hardware Requirements (Essentia Health – Menahga Clinic)

Hardware: Cisco 2911 Router or approved equal

Quantity	Product	Description
1	CISCO2911-SEC/K9	Cisco 2911 Security Bundle w/SEC License PAK
1	MEM-2900-512U1GB	512MB to 1GB DRAM Upgrade (512MB+512MB) for 2901-2921
1	MEM-CF-256U512MB	256 to 512MB CF Upgrade Cisco 1900, 2900, 3900 ISR
1	HWIC-1GE-SFP	GigE High Speed WIC With One SFP Slot
2	VWIC2-2MFT-T1/E1	2-Port 2 nd Gen Multiflex Trunk Voice/Wan Int. Card – T1/E1
1	CAB-AC	AC Power Cord (North America) C13, NEMA 5-15P, 2.1m
1	CAB-Console-USB	Console Cable 6ft with USB Type A and mini-B
1	ISR-CCP-CD	Cisco Config Professional on CD, CCP-Express on Router Flash
1	S29UK9-15001M Cisco	2901-2921 IOS Universal
1	PWR-2911-AC	Cisco11AC Power Supply
1	SL-29-IB-K9	IP Base License for Cisco 2901-2951
1	SL-29-SEC-K9	Security License for Cisco 2901-2951
3	CON-SNT-2911SEC	SMARTnet 8x5xNBD Cisco2911 Security

Hardware: Cisco 3560X Series Switch or approved equal

Quantity	Product	Description
1	WS-3560X-48TS-S	Catalyst 3560X 48 48 Port Data IP Base
1	C3KX-NM-1G	Catalyst 3K-X 1G Network Module Option PID
1	CAB-CONSOLE-USB	Console Cable 6 ft with USB Type A and mini-B
1	S356XVK9T-12255SE	CAT 3560 IOS UNIVERSAL WITH WEB BASED DEV MGR
1	C3KX-PWR-350WAC/2	Catalyst 3K-X 350W AC Secondary Power Supply
1	CAB-SKX-AC	AC Power Cord for Catalyst 3K-X (North America)
3	CON-SNTP-3560X 4TS	SMARTnet 8x5xNBD Service

Hardware: Optics and GLC Connectors or approved equal

Quantity	Product	Description
4	GLC-T=	1000BASE-T SFP
4	GLC-SX-MM=	GE SFP, LC connector SX transceiver

Appendix B: Hardware Requirements (Essentia Health – Moorhead Clinic)

Hardware: Cisco 2911 Router or approved equal

Quantity	Product	Description
1	CISCO2911-SEC/K9	Cisco 2911 Security Bundle w/SEC License PAK
1	MEM-2900-512U1GB	512MB to 1GB DRAM Upgrade (512MB+512MB) for 2901-2921
1	MEM-CF-256U512MB	256 to 512MB CF Upgrade Cisco 1900, 2900, 3900 ISR
1	HWIC-1GE-SFP	GigE High Speed WIC With One SFP Slot
2	VWIC2-2MFT-T1/E1	2-Port 2 nd Gen Multiflex Trunk Voice/Wan Int. Card – T1/E1
1	CAB-AC	AC Power Cord (North America) C13, NEMA 5-15P, 2.1m
1	CAB-Console-USB	Console Cable 6ft with USB Type A and mini-B
1	ISR-CCP-CD	Cisco Config Professional on CD, CCP-Express on Router Flash
1	S29UK9-15001M Cisco	2901-2921 IOS Universal
1	PWR-2911-AC	Cisco11AC Power Supply
1	SL-29-IB-K9	IP Base License for Cisco 2901-2951
1	SL-29-SEC-K9	Security License for Cisco 2901-2951
3	CON-SNT-2911SEC	SMARTnet 8x5xNBD Cisco2911 Security

Hardware: Cisco 3560X Series Switch or approved equal

Quantity	Product	Description
1	WS-3560X-48TS-S	Catalyst 3560X 48 48 Port Data IP Base
1	C3KX-NM-1G	Catalyst 3K-X 1G Network Module Option PID
1	CAB-CONSOLE-USB	Console Cable 6 ft with USB Type A and mini-B
1	S356XVK9T-12255SE	CAT 3560 IOS UNIVERSAL WITH WEB BASED DEV MGR
1	C3KX-PWR-350WAC/2	Catalyst 3K-X 350W AC Secondary Power Supply
1	CAB-SKX-AC	AC Power Cord for Catalyst 3K-X (North America)
3	CON-SNTP-3560X 4TS	SMARTnet 8x5xNBD Service

Hardware: Optics and GLC Connectors or approved equal

Quantity	Product	Description
4	GLC-T=	1000BASE-T SFP
4	GLC-SX-MM=	GE SFP, LC connector SX transceiver

Appendix B: Hardware Requirements (Essentia Health – Oklee Clinic)

Hardware: Cisco 2911 Router or approved equal

Quantity	Product	Description
1	CISCO2911-SEC/K9	Cisco 2911 Security Bundle w/SEC License PAK
1	MEM-2900-512U1GB	512MB to 1GB DRAM Upgrade (512MB+512MB) for 2901-2921
1	MEM-CF-256U512MB	256 to 512MB CF Upgrade Cisco 1900, 2900, 3900 ISR
1	HWIC-1GE-SFP	GigE High Speed WIC With One SFP Slot
2	VWIC2-2MFT-T1/E1	2-Port 2 nd Gen Multiflex Trunk Voice/Wan Int. Card – T1/E1
1	CAB-AC	AC Power Cord (North America) C13, NEMA 5-15P, 2.1m
1	CAB-Console-USB	Console Cable 6ft with USB Type A and mini-B
1	ISR-CCP-CD	Cisco Config Professional on CD, CCP-Express on Router Flash
1	S29UK9-15001M Cisco	2901-2921 IOS Universal
1	PWR-2911-AC	Cisco11AC Power Supply
1	SL-29-IB-K9	IP Base License for Cisco 2901-2951
1	SL-29-SEC-K9	Security License for Cisco 2901-2951
3	CON-SNT-2911SEC	SMARTnet 8x5xNBD Cisco2911 Security

Hardware: Cisco 3560X Series Switch or approved equal

Quantity	Product	Description
1	WS-3560X-48TS-S	Catalyst 3560X 48 48 Port Data IP Base
1	C3KX-NM-1G	Catalyst 3K-X 1G Network Module Option PID
1	CAB-CONSOLE-USB	Console Cable 6 ft with USB Type A and mini-B
1	S356XVK9T-12255SE	CAT 3560 IOS UNIVERSAL WITH WEB BASED DEV MGR
1	C3KX-PWR-350WAC/2	Catalyst 3K-X 350W AC Secondary Power Supply
1	CAB-SKX-AC	AC Power Cord for Catalyst 3K-X (North America)
3	CON-SNTP-3560X 4TS	SMARTnet 8x5xNBD Service

Hardware: Optics and GLC Connectors or approved equal

Quantity	Product	Description
4	GLC-T=	1000BASE-T SFP
4	GLC-SX-MM=	GE SFP, LC connector SX transceiver

Appendix B: Hardware Requirements (Essentia Health – Park Rapids Clinic)

Hardware: Cisco 2911 Router or approved equal

Quantity	Product	Description
1	CISCO2911-SEC/K9	Cisco 2911 Security Bundle w/SEC License PAK
1	MEM-2900-512U1GB	512MB to 1GB DRAM Upgrade (512MB+512MB) for 2901-2921
1	MEM-CF-256U512MB	256 to 512MB CF Upgrade Cisco 1900, 2900, 3900 ISR
1	HWIC-1GE-SFP	GigE High Speed WIC With One SFP Slot
2	VWIC2-2MFT-T1/E1	2-Port 2 nd Gen Multiflex Trunk Voice/Wan Int. Card – T1/E1
1	CAB-AC	AC Power Cord (North America) C13, NEMA 5-15P, 2.1m
1	CAB-Console-USB	Console Cable 6ft with USB Type A and mini-B
1	ISR-CCP-CD	Cisco Config Professional on CD, CCP-Express on Router Flash
1	S29UK9-15001M Cisco	2901-2921 IOS Universal
1	PWR-2911-AC	Cisco11AC Power Supply
1	SL-29-IB-K9	IP Base License for Cisco 2901-2951
1	SL-29-SEC-K9	Security License for Cisco 2901-2951
3	CON-SNT-2911SEC	SMARTnet 8x5xNBD Cisco2911 Security

Hardware: Cisco 3560X Series Switch or approved equal

Quantity	Product	Description
1	WS-3560X-48TS-S	Catalyst 3560X 48 48 Port Data IP Base
1	C3KX-NM-1G	Catalyst 3K-X 1G Network Module Option PID
1	CAB-CONSOLE-USB	Console Cable 6 ft with USB Type A and mini-B
1	S356XVK9T-12255SE	CAT 3560 IOS UNIVERSAL WITH WEB BASED DEV MGR
1	C3KX-PWR-350WAC/2	Catalyst 3K-X 350W AC Secondary Power Supply
1	CAB-SKX-AC	AC Power Cord for Catalyst 3K-X (North America)
3	CON-SNTP-3560X 4TS	SMARTnet 8x5xNBD Service

Hardware: Optics and GLC Connectors or approved equal

Quantity	Product	Description
4	GLC-T=	1000BASE-T SFP
4	GLC-SX-MM=	GE SFP, LC connector SX transceiver

Appendix B: Hardware Requirements (Essentia Health – Fargo South University Clinic)

Hardware: Cisco 2911 Router or approved equal

Quantity	Product	Description
1	CISCO2911-SEC/K9	Cisco 2911 Security Bundle w/SEC License PAK
1	MEM-2900-512U1GB	512MB to 1GB DRAM Upgrade (512MB+512MB) for 2901-2921
1	MEM-CF-256U512MB	256 to 512MB CF Upgrade Cisco 1900, 2900, 3900 ISR
1	HWIC-1GE-SFP	GigE High Speed WIC With One SFP Slot
2	VWIC2-2MFT-T1/E1	2-Port 2 nd Gen Multiflex Trunk Voice/Wan Int. Card – T1/E1
1	CAB-AC	AC Power Cord (North America) C13, NEMA 5-15P, 2.1m
1	CAB-Console-USB	Console Cable 6ft with USB Type A and mini-B
1	ISR-CCP-CD	Cisco Config Professional on CD, CCP-Express on Router Flash
1	S29UK9-15001M Cisco	2901-2921 IOS Universal
1	PWR-2911-AC	Cisco11AC Power Supply
1	SL-29-IB-K9	IP Base License for Cisco 2901-2951
1	SL-29-SEC-K9	Security License for Cisco 2901-2951
3	CON-SNT-2911SEC	SMARTnet 8x5xNBD Cisco2911 Security

Hardware: Cisco 3560X Series Switch or approved equal

Quantity	Product	Description
1	WS-3560X-48TS-S	Catalyst 3560X 48 48 Port Data IP Base
1	C3KX-NM-1G	Catalyst 3K-X 1G Network Module Option PID
1	CAB-CONSOLE-USB	Console Cable 6 ft with USB Type A and mini-B
1	S356XVK9T-12255SE	CAT 3560 IOS UNIVERSAL WITH WEB BASED DEV MGR
1	C3KX-PWR-350WAC/2	Catalyst 3K-X 350W AC Secondary Power Supply
1	CAB-SKX-AC	AC Power Cord for Catalyst 3K-X (North America)
3	CON-SNTP-3560X 4TS	SMARTnet 8x5xNBD Service

Hardware: Optics and GLC Connectors or approved equal

Quantity	Product	Description
4	GLC-T=	1000BASE-T SFP
4	GLC-SX-MM=	GE SFP, LC connector SX transceiver

Appendix B: Hardware Requirements (Essentia Health – St. Joseph’s Pequot Lakes Clinic)

Hardware: Cisco 2911 Router or approved equal

Quantity	Product	Description
1	CISCO2911-SEC/K9	Cisco 2911 Security Bundle w/SEC License PAK
1	MEM-2900-512U1GB	512MB to 1GB DRAM Upgrade (512MB+512MB) for 2901-2921
1	MEM-CF-256U512MB	256 to 512MB CF Upgrade Cisco 1900, 2900, 3900 ISR
1	HWIC-1GE-SFP	GigE High Speed WIC With One SFP Slot
2	VWIC2-2MFT-T1/E1	2-Port 2 nd Gen Multiflex Trunk Voice/Wan Int. Card – T1/E1
1	CAB-AC	AC Power Cord (North America) C13, NEMA 5-15P, 2.1m
1	CAB-Console-USB	Console Cable 6ft with USB Type A and mini-B
1	ISR-CCP-CD	Cisco Config Professional on CD, CCP-Express on Router Flash
1	S29UK9-15001M Cisco	2901-2921 IOS Universal
1	PWR-2911-AC	Cisco11AC Power Supply
1	SL-29-IB-K9	IP Base License for Cisco 2901-2951
1	SL-29-SEC-K9	Security License for Cisco 2901-2951
3	CON-SNT-2911SEC	SMARTnet 8x5xNBD Cisco2911 Security

Hardware: Cisco 3560X Series Switch or approved equal

Quantity	Product	Description
1	WS-3560X-48TS-S	Catalyst 3560X 48 48 Port Data IP Base
1	C3KX-NM-1G	Catalyst 3K-X 1G Network Module Option PID
1	CAB-CONSOLE-USB	Console Cable 6 ft with USB Type A and mini-B
1	S356XVK9T-12255SE	CAT 3560 IOS UNIVERSAL WITH WEB BASED DEV MGR
1	C3KX-PWR-350WAC/2	Catalyst 3K-X 350W AC Secondary Power Supply
1	CAB-SKX-AC	AC Power Cord for Catalyst 3K-X (North America)
3	CON-SNTP-3560X 4TS	SMARTnet 8x5xNBD Service

Hardware: Optics and GLC Connectors or approved equal

Quantity	Product	Description
4	GLC-T=	1000BASE-T SFP
4	GLC-SX-MM=	GE SFP, LC connector SX transceiver

Appendix B: Hardware Requirements (Essentia Health – St. Joseph’s Pierz Clinic)

Hardware: Cisco 2911 Router or approved equal

Quantity	Product	Description
1	CISCO2911-SEC/K9	Cisco 2911 Security Bundle w/SEC License PAK
1	MEM-2900-512U1GB	512MB to 1GB DRAM Upgrade (512MB+512MB) for 2901-2921
1	MEM-CF-256U512MB	256 to 512MB CF Upgrade Cisco 1900, 2900, 3900 ISR
1	HWIC-1GE-SFP	GigE High Speed WIC With One SFP Slot
2	VWIC2-2MFT-T1/E1	2-Port 2 nd Gen Multiflex Trunk Voice/Wan Int. Card – T1/E1
1	CAB-AC	AC Power Cord (North America) C13, NEMA 5-15P, 2.1m
1	CAB-Console-USB	Console Cable 6ft with USB Type A and mini-B
1	ISR-CCP-CD	Cisco Config Professional on CD, CCP-Express on Router Flash
1	S29UK9-15001M Cisco	2901-2921 IOS Universal
1	PWR-2911-AC	Cisco11AC Power Supply
1	SL-29-IB-K9	IP Base License for Cisco 2901-2951
1	SL-29-SEC-K9	Security License for Cisco 2901-2951
3	CON-SNT-2911SEC	SMARTnet 8x5xNBD Cisco2911 Security

Hardware: Cisco 3560X Series Switch or approved equal

Quantity	Product	Description
1	WS-3560X-48TS-S	Catalyst 3560X 48 48 Port Data IP Base
1	C3KX-NM-1G	Catalyst 3K-X 1G Network Module Option PID
1	CAB-CONSOLE-USB	Console Cable 6 ft with USB Type A and mini-B
1	S356XVK9T-12255SE	CAT 3560 IOS UNIVERSAL WITH WEB BASED DEV MGR
1	C3KX-PWR-350WAC/2	Catalyst 3K-X 350W AC Secondary Power Supply
1	CAB-SKX-AC	AC Power Cord for Catalyst 3K-X (North America)
3	CON-SNTP-3560X 4TS	SMARTnet 8x5xNBD Service

Hardware: Optics and GLC Connectors or approved equal

Quantity	Product	Description
4	GLC-T=	1000BASE-T SFP
4	GLC-SX-MM=	GE SFP, LC connector SX transceiver

Appendix B: Hardware Requirements (Essentia Health – St. Joseph’s Pillager Clinic)

Hardware: Cisco 2911 Router or approved equal

Quantity	Product	Description
1	CISCO2911-SEC/K9	Cisco 2911 Security Bundle w/SEC License PAK
1	MEM-2900-512U1GB	512MB to 1GB DRAM Upgrade (512MB+512MB) for 2901-2921
1	MEM-CF-256U512MB	256 to 512MB CF Upgrade Cisco 1900, 2900, 3900 ISR
1	HWIC-1GE-SFP	GigE High Speed WIC With One SFP Slot
2	VWIC2-2MFT-T1/E1	2-Port 2 nd Gen Multiflex Trunk Voice/Wan Int. Card – T1/E1
1	CAB-AC	AC Power Cord (North America) C13, NEMA 5-15P, 2.1m
1	CAB-Console-USB	Console Cable 6ft with USB Type A and mini-B
1	ISR-CCP-CD	Cisco Config Professional on CD, CCP-Express on Router Flash
1	S29UK9-15001M Cisco	2901-2921 IOS Universal
1	PWR-2911-AC	Cisco11AC Power Supply
1	SL-29-IB-K9	IP Base License for Cisco 2901-2951
1	SL-29-SEC-K9	Security License for Cisco 2901-2951
3	CON-SNT-2911SEC	SMARTnet 8x5xNBD Cisco2911 Security

Hardware: Cisco 3560X Series Switch or approved equal

Quantity	Product	Description
1	WS-3560X-48TS-S	Catalyst 3560X 48 48 Port Data IP Base
1	C3KX-NM-1G	Catalyst 3K-X 1G Network Module Option PID
1	CAB-CONSOLE-USB	Console Cable 6 ft with USB Type A and mini-B
1	S356XVK9T-12255SE	CAT 3560 IOS UNIVERSAL WITH WEB BASED DEV MGR
1	C3KX-PWR-350WAC/2	Catalyst 3K-X 350W AC Secondary Power Supply
1	CAB-SKX-AC	AC Power Cord for Catalyst 3K-X (North America)
3	CON-SNTP-3560X 4TS	SMARTnet 8x5xNBD Service

Hardware: Optics and GLC Connectors or approved equal

Quantity	Product	Description
4	GLC-T=	1000BASE-T SFP
4	GLC-SX-MM=	GE SFP, LC connector SX transceiver

Appendix B: Hardware Requirements (Essentia Health – St. Joseph’s Pine River Clinic)

Hardware: Cisco 2911 Router or approved equal

Quantity	Product	Description
1	CISCO2911-SEC/K9	Cisco 2911 Security Bundle w/SEC License PAK
1	MEM-2900-512U1GB	512MB to 1GB DRAM Upgrade (512MB+512MB) for 2901-2921
1	MEM-CF-256U512MB	256 to 512MB CF Upgrade Cisco 1900, 2900, 3900 ISR
1	HWIC-1GE-SFP	GigE High Speed WIC With One SFP Slot
2	VWIC2-2MFT-T1/E1	2-Port 2 nd Gen Multiflex Trunk Voice/Wan Int. Card – T1/E1
1	CAB-AC	AC Power Cord (North America) C13, NEMA 5-15P, 2.1m
1	CAB-Console-USB	Console Cable 6ft with USB Type A and mini-B
1	ISR-CCP-CD	Cisco Config Professional on CD, CCP-Express on Router Flash
1	S29UK9-15001M Cisco	2901-2921 IOS Universal
1	PWR-2911-AC	Cisco11AC Power Supply
1	SL-29-IB-K9	IP Base License for Cisco 2901-2951
1	SL-29-SEC-K9	Security License for Cisco 2901-2951
3	CON-SNT-2911SEC	SMARTnet 8x5xNBD Cisco2911 Security

Hardware: Cisco 3560X Series Switch or approved equal

Quantity	Product	Description
1	WS-3560X-48TS-S	Catalyst 3560X 48 48 Port Data IP Base
1	C3KX-NM-1G	Catalyst 3K-X 1G Network Module Option PID
1	CAB-CONSOLE-USB	Console Cable 6 ft with USB Type A and mini-B
1	S356XVK9T-12255SE	CAT 3560 IOS UNIVERSAL WITH WEB BASED DEV MGR
1	C3KX-PWR-350WAC/2	Catalyst 3K-X 350W AC Secondary Power Supply
1	CAB-SKX-AC	AC Power Cord for Catalyst 3K-X (North America)
3	CON-SNTP-3560X 4TS	SMARTnet 8x5xNBD Service

Hardware: Optics and GLC Connectors or approved equal

Quantity	Product	Description
4	GLC-T=	1000BASE-T SFP
4	GLC-SX-MM=	GE SFP, LC connector SX transceiver

Appendix B: Hardware Requirements (Essentia Health – Valley City Clinic)

Hardware: Cisco 2911 Router or approved equal

Quantity	Product	Description
1	CISCO2911-SEC/K9	Cisco 2911 Security Bundle w/SEC License PAK
1	MEM-2900-512U1GB	512MB to 1GB DRAM Upgrade (512MB+512MB) for 2901-2921
1	MEM-CF-256U512MB	256 to 512MB CF Upgrade Cisco 1900, 2900, 3900 ISR
1	HWIC-1GE-SFP	GigE High Speed WIC With One SFP Slot
2	VWIC2-2MFT-T1/E1	2-Port 2 nd Gen Multiflex Trunk Voice/Wan Int. Card – T1/E1
1	CAB-AC	AC Power Cord (North America) C13, NEMA 5-15P, 2.1m
1	CAB-Console-USB	Console Cable 6ft with USB Type A and mini-B
1	ISR-CCP-CD	Cisco Config Professional on CD, CCP-Express on Router Flash
1	S29UK9-15001M Cisco	2901-2921 IOS Universal
1	PWR-2911-AC	Cisco11AC Power Supply
1	SL-29-IB-K9	IP Base License for Cisco 2901-2951
1	SL-29-SEC-K9	Security License for Cisco 2901-2951
3	CON-SNT-2911SEC	SMARTnet 8x5xNBD Cisco2911 Security

Hardware: Cisco 3560X Series Switch or approved equal

Quantity	Product	Description
1	WS-3560X-48TS-S	Catalyst 3560X 48 48 Port Data IP Base
1	C3KX-NM-1G	Catalyst 3K-X 1G Network Module Option PID
1	CAB-CONSOLE-USB	Console Cable 6 ft with USB Type A and mini-B
1	S356XVK9T-12255SE	CAT 3560 IOS UNIVERSAL WITH WEB BASED DEV MGR
1	C3KX-PWR-350WAC/2	Catalyst 3K-X 350W AC Secondary Power Supply
1	CAB-SKX-AC	AC Power Cord for Catalyst 3K-X (North America)
3	CON-SNTP-3560X 4TS	SMARTnet 8x5xNBD Service

Hardware: Optics and GLC Connectors or approved equal

Quantity	Product	Description
4	GLC-T=	1000BASE-T SFP
4	GLC-SX-MM=	GE SFP, LC connector SX transceiver

Appendix B: Hardware Requirements (Essentia Health – Wahpeton Clinic)

Hardware: Cisco 2911 Router or approved equal

Quantity	Product	Description
1	CISCO2911-SEC/K9	Cisco 2911 Security Bundle w/SEC License PAK
1	MEM-2900-512U1GB	512MB to 1GB DRAM Upgrade (512MB+512MB) for 2901-2921
1	MEM-CF-256U512MB	256 to 512MB CF Upgrade Cisco 1900, 2900, 3900 ISR
1	HWIC-1GE-SFP	GigE High Speed WIC With One SFP Slot
2	VWIC2-2MFT-T1/E1	2-Port 2 nd Gen Multiflex Trunk Voice/Wan Int. Card – T1/E1
1	CAB-AC	AC Power Cord (North America) C13, NEMA 5-15P, 2.1m
1	CAB-Console-USB	Console Cable 6ft with USB Type A and mini-B
1	ISR-CCP-CD	Cisco Config Professional on CD, CCP-Express on Router Flash
1	S29UK9-15001M Cisco	2901-2921 IOS Universal
1	PWR-2911-AC	Cisco11AC Power Supply
1	SL-29-IB-K9	IP Base License for Cisco 2901-2951
1	SL-29-SEC-K9	Security License for Cisco 2901-2951
3	CON-SNT-2911SEC	SMARTnet 8x5xNBD Cisco2911 Security

Hardware: Cisco 3560X Series Switch or approved equal

Quantity	Product	Description
1	WS-3560X-48TS-S	Catalyst 3560X 48 48 Port Data IP Base
1	C3KX-NM-1G	Catalyst 3K-X 1G Network Module Option PID
1	CAB-CONSOLE-USB	Console Cable 6 ft with USB Type A and mini-B
1	S356XVK9T-12255SE	CAT 3560 IOS UNIVERSAL WITH WEB BASED DEV MGR
1	C3KX-PWR-350WAC/2	Catalyst 3K-X 350W AC Secondary Power Supply
1	CAB-SKX-AC	AC Power Cord for Catalyst 3K-X (North America)
3	CON-SNTP-3560X 4TS	SMARTnet 8x5xNBD Service

Hardware: Optics and GLC Connectors or approved equal

Quantity	Product	Description
4	GLC-T=	1000BASE-T SFP
4	GLC-SX-MM=	GE SFP, LC connector SX transceiver

Appendix B: Hardware Requirements (Essentia Health – Walker Clinic)

Hardware: Cisco 2911 Router or approved equal

Quantity	Product	Description
1	CISCO2911-SEC/K9	Cisco 2911 Security Bundle w/SEC License PAK
1	MEM-2900-512U1GB	512MB to 1GB DRAM Upgrade (512MB+512MB) for 2901-2921
1	MEM-CF-256U512MB	256 to 512MB CF Upgrade Cisco 1900, 2900, 3900 ISR
1	HWIC-1GE-SFP	GigE High Speed WIC With One SFP Slot
2	VWIC2-2MFT-T1/E1	2-Port 2 nd Gen Multiflex Trunk Voice/Wan Int. Card – T1/E1
1	CAB-AC	AC Power Cord (North America) C13, NEMA 5-15P, 2.1m
1	CAB-Console-USB	Console Cable 6ft with USB Type A and mini-B
1	ISR-CCP-CD	Cisco Config Professional on CD, CCP-Express on Router Flash
1	S29UK9-15001M Cisco	2901-2921 IOS Universal
1	PWR-2911-AC	Cisco11AC Power Supply
1	SL-29-IB-K9	IP Base License for Cisco 2901-2951
1	SL-29-SEC-K9	Security License for Cisco 2901-2951
3	CON-SNT-2911SEC	SMARTnet 8x5xNBD Cisco2911 Security

Hardware: Cisco 3560X Series Switch or approved equal

Quantity	Product	Description
1	WS-3560X-48TS-S	Catalyst 3560X 48 48 Port Data IP Base
1	C3KX-NM-1G	Catalyst 3K-X 1G Network Module Option PID
1	CAB-CONSOLE-USB	Console Cable 6 ft with USB Type A and mini-B
1	S356XVK9T-12255SE	CAT 3560 IOS UNIVERSAL WITH WEB BASED DEV MGR
1	C3KX-PWR-350WAC/2	Catalyst 3K-X 350W AC Secondary Power Supply
1	CAB-SKX-AC	AC Power Cord for Catalyst 3K-X (North America)
3	CON-SNTP-3560X 4TS	SMARTnet 8x5xNBD Service

Hardware: Optics and GLC Connectors or approved equal

Quantity	Product	Description
4	GLC-T=	1000BASE-T SFP
4	GLC-SX-MM=	GE SFP, LC connector SX transceiver

Appendix B: Hardware Requirements (Essentia Health – Fargo West Acres Clinic)

Hardware: Cisco 2911 Router or approved equal

Quantity	Product	Description
1	CISCO2911-SEC/K9	Cisco 2911 Security Bundle w/SEC License PAK
1	MEM-2900-512U1GB	512MB to 1GB DRAM Upgrade (512MB+512MB) for 2901-2921
1	MEM-CF-256U512MB	256 to 512MB CF Upgrade Cisco 1900, 2900, 3900 ISR
1	HWIC-1GE-SFP	GigE High Speed WIC With One SFP Slot
2	VWIC2-2MFT-T1/E1	2-Port 2 nd Gen Multiflex Trunk Voice/Wan Int. Card – T1/E1
1	CAB-AC	AC Power Cord (North America) C13, NEMA 5-15P, 2.1m
1	CAB-Console-USB	Console Cable 6ft with USB Type A and mini-B
1	ISR-CCP-CD	Cisco Config Professional on CD, CCP-Express on Router Flash
1	S29UK9-15001M Cisco	2901-2921 IOS Universal
1	PWR-2911-AC	Cisco11AC Power Supply
1	SL-29-IB-K9	IP Base License for Cisco 2901-2951
1	SL-29-SEC-K9	Security License for Cisco 2901-2951
3	CON-SNT-2911SEC	SMARTnet 8x5xNBD Cisco2911 Security

Hardware: Cisco 3560X Series Switch or approved equal

Quantity	Product	Description
1	WS-3560X-48TS-S	Catalyst 3560X 48 48 Port Data IP Base
1	C3KX-NM-1G	Catalyst 3K-X 1G Network Module Option PID
1	CAB-CONSOLE-USB	Console Cable 6 ft with USB Type A and mini-B
1	S356XVK9T-12255SE	CAT 3560 IOS UNIVERSAL WITH WEB BASED DEV MGR
1	C3KX-PWR-350WAC/2	Catalyst 3K-X 350W AC Secondary Power Supply
1	CAB-SKX-AC	AC Power Cord for Catalyst 3K-X (North America)
3	CON-SNTP-3560X 4TS	SMARTnet 8x5xNBD Service

Hardware: Optics and GLC Connectors or approved equal

Quantity	Product	Description
4	GLC-T=	1000BASE-T SFP
4	GLC-SX-MM=	GE SFP, LC connector SX transceiver

Appendix B: Hardware Requirements (Essentia Health – West Fargo Clinic)

Hardware: Cisco 2911 Router or approved equal

Quantity	Product	Description
1	CISCO2911-SEC/K9	Cisco 2911 Security Bundle w/SEC License PAK
1	MEM-2900-512U1GB	512MB to 1GB DRAM Upgrade (512MB+512MB) for 2901-2921
1	MEM-CF-256U512MB	256 to 512MB CF Upgrade Cisco 1900, 2900, 3900 ISR
1	HWIC-1GE-SFP	GigE High Speed WIC With One SFP Slot
2	VWIC2-2MFT-T1/E1	2-Port 2 nd Gen Multiflex Trunk Voice/Wan Int. Card – T1/E1
1	CAB-AC	AC Power Cord (North America) C13, NEMA 5-15P, 2.1m
1	CAB-Console-USB	Console Cable 6ft with USB Type A and mini-B
1	ISR-CCP-CD	Cisco Config Professional on CD, CCP-Express on Router Flash
1	S29UK9-15001M Cisco	2901-2921 IOS Universal
1	PWR-2911-AC	Cisco11AC Power Supply
1	SL-29-IB-K9	IP Base License for Cisco 2901-2951
1	SL-29-SEC-K9	Security License for Cisco 2901-2951
3	CON-SNT-2911SEC	SMARTnet 8x5xNBD Cisco2911 Security

Hardware: Cisco 3560X Series Switch or approved equal

Quantity	Product	Description
1	WS-3560X-48TS-S	Catalyst 3560X 48 48 Port Data IP Base
1	C3KX-NM-1G	Catalyst 3K-X 1G Network Module Option PID
1	CAB-CONSOLE-USB	Console Cable 6 ft with USB Type A and mini-B
1	S356XVK9T-12255SE	CAT 3560 IOS UNIVERSAL WITH WEB BASED DEV MGR
1	C3KX-PWR-350WAC/2	Catalyst 3K-X 350W AC Secondary Power Supply
1	CAB-SKX-AC	AC Power Cord for Catalyst 3K-X (North America)
3	CON-SNTP-3560X 4TS	SMARTnet 8x5xNBD Service

Hardware: Optics and GLC Connectors or approved equal

Quantity	Product	Description
4	GLC-T=	1000BASE-T SFP
4	GLC-SX-MM=	GE SFP, LC connector SX transceiver

Appendix B: Hardware Requirements (Family Life Center – Coon Rapids)

Hardware: Cisco 2911 Router or approved equal

Quantity	Product	Description
1	CISCO2911-SEC/K9	Cisco 2911 Security Bundle w/SEC License PAK
1	MEM-2900-512U1GB	512MB to 1GB DRAM Upgrade (512MB+512MB) for 2901-2921
1	MEM-CF-256U512MB	256 to 512MB CF Upgrade Cisco 1900, 2900, 3900 ISR
1	HWIC-1GE-SFP	GigE High Speed WIC With One SFP Slot
2	VVIC2-2MFT-T1/E1	2-Port 2 nd Gen Multiflex Trunk Voice/Wan Int. Card – T1/E1
1	CAB-AC	AC Power Cord (North America) C13, NEMA 5-15P, 2.1m
1	CAB-Console-USB	Console Cable 6ft with USB Type A and mini-B
1	ISR-CCP-CD	Cisco Config Professional on CD, CCP-Express on Router Flash
1	S29UK9-15001M Cisco	2901-2921 IOS Universal
1	PWR-2911-AC	Cisco11AC Power Supply
1	SL-29-IB-K9	IP Base License for Cisco 2901-2951
1	SL-29-SEC-K9	Security License for Cisco 2901-2951
3	CON-SNT-2911SEC	SMARTnet 8x5xNBD Cisco2911 Security

Hardware: Cisco 3560X Series Switch or approved equal

Quantity	Product	Description
1	WS-3560X-48TS-S	Catalyst 3560X 48 48 Port Data IP Base
1	C3KX-NM-1G	Catalyst 3K-X 1G Network Module Option PID
1	CAB-CONSOLE-USB	Console Cable 6 ft with USB Type A and mini-B
1	S356XVK9T-12255SE	CAT 3560 IOS UNIVERSAL WITH WEB BASED DEV MGR
1	C3KX-PWR-350WAC/2	Catalyst 3K-X 350W AC Secondary Power Supply
1	CAB-SKX-AC	AC Power Cord for Catalyst 3K-X (North America)
3	CON-SNTP-3560X 4TS	SMARTnet 8x5xNBD Service

Hardware: Optics and GLC Connectors or approved equal

Quantity	Product	Description
4	GLC-T=	1000BASE-T SFP
4	GLC-SX-MM=	GE SFP, LC connector SX transceiver

Appendix B: Hardware Requirements (Family Life Center – Lindstrom)

Hardware: Cisco 2911 Router or approved equal

Quantity	Product	Description
1	CISCO2911-SEC/K9	Cisco 2911 Security Bundle w/SEC License PAK
1	MEM-2900-512U1GB	512MB to 1GB DRAM Upgrade (512MB+512MB) for 2901-2921
1	MEM-CF-256U512MB	256 to 512MB CF Upgrade Cisco 1900, 2900, 3900 ISR
1	HWIC-1GE-SFP	GigE High Speed WIC With One SFP Slot
2	VWIC2-2MFT-T1/E1	2-Port 2 nd Gen Multiflex Trunk Voice/Wan Int. Card – T1/E1
1	CAB-AC	AC Power Cord (North America) C13, NEMA 5-15P, 2.1m
1	CAB-Console-USB	Console Cable 6ft with USB Type A and mini-B
1	ISR-CCP-CD	Cisco Config Professional on CD, CCP-Express on Router Flash
1	S29UK9-15001M Cisco	2901-2921 IOS Universal
1	PWR-2911-AC	Cisco11AC Power Supply
1	SL-29-IB-K9	IP Base License for Cisco 2901-2951
1	SL-29-SEC-K9	Security License for Cisco 2901-2951
3	CON-SNT-2911SEC	SMARTnet 8x5xNBD Cisco2911 Security

Hardware: Cisco 3560X Series Switch or approved equal

Quantity	Product	Description
1	WS-3560X-48TS-S	Catalyst 3560X 48 48 Port Data IP Base
1	C3KX-NM-1G	Catalyst 3K-X 1G Network Module Option PID
1	CAB-CONSOLE-USB	Console Cable 6 ft with USB Type A and mini-B
1	S356XVK9T-12255SE	CAT 3560 IOS UNIVERSAL WITH WEB BASED DEV MGR
1	C3KX-PWR-350WAC/2	Catalyst 3K-X 350W AC Secondary Power Supply
1	CAB-SKX-AC	AC Power Cord for Catalyst 3K-X (North America)
3	CON-SNTP-3560X 4TS	SMARTnet 8x5xNBD Service

Hardware: Optics and GLC Connectors or approved equal

Quantity	Product	Description
4	GLC-T=	1000BASE-T SFP
4	GLC-SX-MM=	GE SFP, LC connector SX transceiver

Appendix B: Hardware Requirements (First Care Health Center)

Hardware: Cisco 2911 Router or approved equal

Quantity	Product	Description
1	CISCO2911-SEC/K9	Cisco 2911 Security Bundle w/SEC License PAK
1	MEM-2900-512U1GB	512MB to 1GB DRAM Upgrade (512MB+512MB) for 2901-2921
1	MEM-CF-256U512MB	256 to 512MB CF Upgrade Cisco 1900, 2900, 3900 ISR
1	HWIC-1GE-SFP	GigE High Speed WIC With One SFP Slot
2	VWIC2-2MFT-T1/E1	2-Port 2 nd Gen Multiflex Trunk Voice/Wan Int. Card – T1/E1
1	CAB-AC	AC Power Cord (North America) C13, NEMA 5-15P, 2.1m
1	CAB-Console-USB	Console Cable 6ft with USB Type A and mini-B
1	ISR-CCP-CD	Cisco Config Professional on CD, CCP-Express on Router Flash
1	S29UK9-15001M Cisco	2901-2921 IOS Universal
1	PWR-2911-AC	Cisco11AC Power Supply
1	SL-29-IB-K9	IP Base License for Cisco 2901-2951
1	SL-29-SEC-K9	Security License for Cisco 2901-2951
3	CON-SNT-2911SEC	SMARTnet 8x5xNBD Cisco2911 Security

Hardware: Cisco 3560X Series Switch or approved equal

Quantity	Product	Description
1	WS-3560X-48TS-S	Catalyst 3560X 48 48 Port Data IP Base
1	C3KX-NM-1G	Catalyst 3K-X 1G Network Module Option PID
1	CAB-CONSOLE-USB	Console Cable 6 ft with USB Type A and mini-B
1	S356XVK9T-12255SE	CAT 3560 IOS UNIVERSAL WITH WEB BASED DEV MGR
1	C3KX-PWR-350WAC/2	Catalyst 3K-X 350W AC Secondary Power Supply
1	CAB-SKX-AC	AC Power Cord for Catalyst 3K-X (North America)
3	CON-SNTP-3560X 4TS	SMARTnet 8x5xNBD Service

Hardware: Optics and GLC Connectors or approved equal

Quantity	Product	Description
4	GLC-T=	1000BASE-T SFP
4	GLC-SX-MM=	GE SFP, LC connector SX transceiver

Appendix B: Hardware Requirements (Fraser Child and Family Center)

Hardware: Cisco 2911 Router or approved equal

Quantity	Product	Description
1	CISCO2911-SEC/K9	Cisco 2911 Security Bundle w/SEC License PAK
1	MEM-2900-512U1GB	512MB to 1GB DRAM Upgrade (512MB+512MB) for 2901-2921
1	MEM-CF-256U512MB	256 to 512MB CF Upgrade Cisco 1900, 2900, 3900 ISR
1	HWIC-1GE-SFP	GigE High Speed WIC With One SFP Slot
2	VWIC2-2MFT-T1/E1	2-Port 2 nd Gen Multiflex Trunk Voice/Wan Int. Card – T1/E1
1	CAB-AC	AC Power Cord (North America) C13, NEMA 5-15P, 2.1m
1	CAB-Console-USB	Console Cable 6ft with USB Type A and mini-B
1	ISR-CCP-CD	Cisco Config Professional on CD, CCP-Express on Router Flash
1	S29UK9-15001M Cisco	2901-2921 IOS Universal
1	PWR-2911-AC	Cisco11AC Power Supply
1	SL-29-IB-K9	IP Base License for Cisco 2901-2951
1	SL-29-SEC-K9	Security License for Cisco 2901-2951
3	CON-SNT-2911SEC	SMARTnet 8x5xNBD Cisco2911 Security

Hardware: Cisco 3560X Series Switch or approved equal

Quantity	Product	Description
1	WS-3560X-48TS-S	Catalyst 3560X 48 48 Port Data IP Base
1	C3KX-NM-1G	Catalyst 3K-X 1G Network Module Option PID
1	CAB-CONSOLE-USB	Console Cable 6 ft with USB Type A and mini-B
1	S356XVK9T-12255SE	CAT 3560 IOS UNIVERSAL WITH WEB BASED DEV MGR
1	C3KX-PWR-350WAC/2	Catalyst 3K-X 350W AC Secondary Power Supply
1	CAB-SKX-AC	AC Power Cord for Catalyst 3K-X (North America)
3	CON-SNTP-3560X 4TS	SMARTnet 8x5xNBD Service

Hardware: Optics and GLC Connectors or approved equal

Quantity	Product	Description
4	GLC-T=	1000BASE-T SFP
4	GLC-SX-MM=	GE SFP, LC connector SX transceiver

Appendix B: Hardware Requirements (Grand Itasca Clinic and Hospital)

Hardware: Cisco 2911 Router or approved equal

Quantity	Product	Description
1	CISCO2911-SEC/K9	Cisco 2911 Security Bundle w/SEC License PAK
1	MEM-2900-512U1GB	512MB to 1GB DRAM Upgrade (512MB+512MB) for 2901-2921
1	MEM-CF-256U512MB	256 to 512MB CF Upgrade Cisco 1900, 2900, 3900 ISR
1	HWIC-1GE-SFP	GigE High Speed WIC With One SFP Slot
2	VWIC2-2MFT-T1/E1	2-Port 2 nd Gen Multiflex Trunk Voice/Wan Int. Card – T1/E1
1	CAB-AC	AC Power Cord (North America) C13, NEMA 5-15P, 2.1m
1	CAB-Console-USB	Console Cable 6ft with USB Type A and mini-B
1	ISR-CCP-CD	Cisco Config Professional on CD, CCP-Express on Router Flash
1	S29UK9-15001M Cisco	2901-2921 IOS Universal
1	PWR-2911-AC	Cisco11AC Power Supply
1	SL-29-IB-K9	IP Base License for Cisco 2901-2951
1	SL-29-SEC-K9	Security License for Cisco 2901-2951
3	CON-SNT-2911SEC	SMARTnet 8x5xNBD Cisco2911 Security

Hardware: Cisco 3560X Series Switch or approved equal

Quantity	Product	Description
1	WS-3560X-48TS-S	Catalyst 3560X 48 48 Port Data IP Base
1	C3KX-NM-1G	Catalyst 3K-X 1G Network Module Option PID
1	CAB-CONSOLE-USB	Console Cable 6 ft with USB Type A and mini-B
1	S356XVK9T-12255SE	CAT 3560 IOS UNIVERSAL WITH WEB BASED DEV MGR
1	C3KX-PWR-350WAC/2	Catalyst 3K-X 350W AC Secondary Power Supply
1	CAB-SKX-AC	AC Power Cord for Catalyst 3K-X (North America)
3	CON-SNTP-3560X 4TS	SMARTnet 8x5xNBD Service

Hardware: Optics and GLC Connectors or approved equal

Quantity	Product	Description
4	GLC-T=	1000BASE-T SFP
4	GLC-SX-MM=	GE SFP, LC connector SX transceiver

Appendix B: Hardware Requirements (Human Development Center)

Hardware: Cisco 2911 Router or approved equal

Quantity	Product	Description
2	CISCO2911-SEC/K9	Cisco 2911 Security Bundle w/SEC License PAK
2	MEM-2900-512U1GB	512MB to 1GB DRAM Upgrade (512MB+512MB) for 2901-2921
2	MEM-CF-256U512MB	256 to 512MB CF Upgrade Cisco 1900, 2900, 3900 ISR
2	HWIC-1GE-SFP	GigE High Speed WIC With One SFP Slot
2	VWIC2-2MFT-T1/E1	2-Port 2 nd Gen Multiflex Trunk Voice/Wan Int. Card – T1/E1
2	CAB-AC	AC Power Cord (North America) C13, NEMA 5-15P, 2.1m
2	CAB-Console-USB	Console Cable 6ft with USB Type A and mini-B
2	ISR-CCP-CD	Cisco Config Professional on CD, CCP-Express on Router Flash
2	S29UK9-15001M Cisco	2901-2921 IOS Universal
2	PWR-2911-AC	Cisco11AC Power Supply
2	SL-29-IB-K9	IP Base License for Cisco 2901-2951
2	SL-29-SEC-K9	Security License for Cisco 2901-2951
6	CON-SNT-2911SEC	SMARTnet 8x5xNBD Cisco2911 Security

Hardware: Cisco 3560X Series Switch or approved equal

Quantity	Product	Description
2	WS-3560X-48TS-S	Catalyst 3560X 48 48 Port Data IP Base
2	C3KX-NM-1G	Catalyst 3K-X 1G Network Module Option PID
2	CAB-CONSOLE-USB	Console Cable 6 ft with USB Type A and mini-B
2	S356XVK9T-12255SE	CAT 3560 IOS UNIVERSAL WITH WEB BASED DEV MGR
2	C3KX-PWR-350WAC/2	Catalyst 3K-X 350W AC Secondary Power Supply
2	CAB-SKX-AC	AC Power Cord for Catalyst 3K-X (North America)
6	CON-SNTP-3560X 4TS	SMARTnet 8x5xNBD Service

Hardware: Optics and GLC Connectors or approved equal

Quantity	Product	Description
4	GLC-T=	1000BASE-T SFP
4	GLC-SX-MM=	GE SFP, LC connector SX transceiver

Appendix B: Hardware Requirements (Hutchinson Medical Center)

Hardware: Cisco 2911 Router or approved equal

Quantity	Product	Description
1	CISCO2911-SEC/K9	Cisco 2911 Security Bundle w/SEC License PAK
1	MEM-2900-512U1GB	512MB to 1GB DRAM Upgrade (512MB+512MB) for 2901-2921
1	MEM-CF-256U512MB	256 to 512MB CF Upgrade Cisco 1900, 2900, 3900 ISR
1	HWIC-1GE-SFP	GigE High Speed WIC With One SFP Slot
2	VWIC2-2MFT-T1/E1	2-Port 2 nd Gen Multiflex Trunk Voice/Wan Int. Card – T1/E1
1	CAB-AC	AC Power Cord (North America) C13, NEMA 5-15P, 2.1m
1	CAB-Console-USB	Console Cable 6ft with USB Type A and mini-B
1	ISR-CCP-CD	Cisco Config Professional on CD, CCP-Express on Router Flash
1	S29UK9-15001M Cisco	2901-2921 IOS Universal
1	PWR-2911-AC	Cisco11AC Power Supply
1	SL-29-IB-K9	IP Base License for Cisco 2901-2951
1	SL-29-SEC-K9	Security License for Cisco 2901-2951
3	CON-SNT-2911SEC	SMARTnet 8x5xNBD Cisco2911 Security

Hardware: Cisco 3560X Series Switch or approved equal

Quantity	Product	Description
1	WS-3560X-48TS-S	Catalyst 3560X 48 48 Port Data IP Base
1	C3KX-NM-1G	Catalyst 3K-X 1G Network Module Option PID
1	CAB-CONSOLE-USB	Console Cable 6 ft with USB Type A and mini-B
1	S356XVK9T-12255SE	CAT 3560 IOS UNIVERSAL WITH WEB BASED DEV MGR
1	C3KX-PWR-350WAC/2	Catalyst 3K-X 350W AC Secondary Power Supply
1	CAB-SKX-AC	AC Power Cord for Catalyst 3K-X (North America)
3	CON-SNTP-3560X 4TS	SMARTnet 8x5xNBD Service

Hardware: Optics and GLC Connectors or approved equal

Quantity	Product	Description
4	GLC-T=	1000BASE-T SFP
4	GLC-SX-MM=	GE SFP, LC connector SX transceiver

Appendix B: Hardware Requirements (FirstLight Health System)

Hardware: Cisco ASR 1001 Router or approved equal

Quantity	Product	Description
1	ASR1001	Cisco ASR1001 System Crypto, 4built-in GE, Dual P/S
2	ASR1001-PWR-AC	Cisco ASR1001 AC Power Supply
2	CAB-AC-RA	Power Cord, 110V, Right Angle
2	SFP-GE-S	1000BASE-SX SFP (DOM)
2	SFP-GE-Z	1000BASE-ZX Gigabit Ethernet SFP (DOM)
1	M-ASR1K-1001-4GB	Cisco ASR1001 4GB DRAM
1	SASR1001UK9-32S	Cisco ASR 1001 IOS XE – ECRYPTION UNIVERSAL
1	SLASR1-AIS	Cisco ASR 1001 Advanced IP Services License
1	FLASHR1-IOSRED	SW Redundancy License for ASR1000 Series

Hardware: Cisco 3560X Series Switch or approved equal

Quantity	Product	Description
1	WS-3560X-48TS-S	Catalyst 3560X 48 48 Port Data IP Base
1	C3KX-NM-1G	Catalyst 3K-X 1G Network Module Option PID
1	CAB-CONSOLE-USB	Console Cable 6 ft with USB Type A and mini-B
1	S356XVK9T-12255SE	CAT 3560 IOS UNIVERSAL WITH WEB BASED DEV MGR
1	C3KX-PWR-350WAC/2	Catalyst 3K-X 350W AC Secondary Power Supply
1	CAB-SKX-AC	AC Power Cord for Catalyst 3K-X (North America)
3	CON-SNTP-3560X 4TS	SMARTnet 8x5xNBD Service

Hardware: Optics and GLC Connectors or approved equal

Quantity	Product	Description
4	GLC-T=	1000BASE-T SFP
4	GLC-SX-MM=	GE SFP, LC connector SX transceiver

Appendix B: Hardware Requirements (Kittson Memorial Healthcare Center & Clinic)

Hardware: Cisco 3925 Router or equal

Quantity	Product	Description
1	CISCO3925-SEC/K9	Cisco 3925 Security Bundle w/SEC license PAK
1	SL-39-DATA-K9	Data License for Cisco Series
1	MEM-CF-256U1GB	256MB to 1GB Compact Flash Upgrade for Cisco 3900 Series
1	HWIC-1GE-SFP	GigE High Speed WIC With One SFP Slot
1	CAB-AC	AC Power Cord (North America C13, NEMA 5-15P, 2.1m)
1	S39UK9-15001M	Cisco 3925-3945 IOS UNIVERSAL
1	PWR-3900-AC	Cisco 3925/3945 AC Power Supply
1	3900-FANASSY	Cisco 3925/3945 Fan Assembly (Bezel Included)
1	C3900-SPE 100/K9	Cisco Services Performance Engine 100 for Cisco 3925 ISR
1	ISR-CCP-EXP	Cisco Config Pro Express on Router Flash
1	MEM-3900-1GB-DEF	1 GB DRAM 512MB+512MB for Cisco 3925/3945 ISR (Default)
1	CAB-Console-USB	Console Cable 6ft with USB Type A and mini B
1	SL-39-IPB-K9	IP Base License for Cisco 3925/3945
1	SL-39-DEC-K9	Security License for Cisco 3900 Series
1	CON-SNTP-3925SEC	SMARTnet 8x5xNBD Cisco 3925 Security Bundle w/SEC License

Hardware: Cisco 3560X Series Switch or approved equal

Quantity	Product	Description
1	WS-3560X-48TS-S	Catalyst 3560X 48 48 Port Data IP Base
1	C3KX-NM-1G	Catalyst 3K-X 1G Network Module Option PID
1	CAB-CONSOLE-USB	Console Cable 6 ft with USB Type A and mini-B
1	S356XVK9T-12255SE	CAT 3560 IOS UNIVERSAL WITH WEB BASED DEV MGR
1	C3KX-PWR-350WAC/2	Catalyst 3K-X 350W AC Secondary Power Supply
1	CAB-SKX-AC	AC Power Cord for Catalyst 3K-X (North America)
3	CON-SNTP-3560X 4TS	SMARTnet 8x5xNBD Service

Hardware: Optics and GLC Connectors or approved equal

Quantity	Product	Description
4	GLC-T=	1000BASE-T SFP
4	GLC-SX-MM=	GE SFP, LC connector SX transceiver

Appendix B: Hardware Requirements (Lakeland Mental Health)

Hardware: Cisco 2911 Router or approved equal

Quantity	Product	Description
4	CISCO2911-SEC/K9	Cisco 2911 Security Bundle w/SEC License PAK
4	MEM-2900-512U1GB	512MB to 1GB DRAM Upgrade (512MB+512MB) for 2901-2921
4	MEM-CF-256U512MB	256 to 512MB CF Upgrade Cisco 1900, 2900, 3900 ISR
4	HWIC-1GE-SFP	GigE High Speed WIC With One SFP Slot
4	VVIC2-2MFT-T1/E1	2-Port 2 nd Gen Multiflex Trunk Voice/Wan Int. Card – T1/E1
4	CAB-AC	AC Power Cord (North America) C13, NEMA 5-15P, 2.1m
4	CAB-Console-USB	Console Cable 6ft with USB Type A and mini-B
4	ISR-CCP-CD	Cisco Config Professional on CD, CCP-Express on Router Flash
4	S29UK9-15001M Cisco	2901-2921 IOS Universal
4	PWR-2911-AC	Cisco11AC Power Supply
4	SL-29-IB-K9	IP Base License for Cisco 2901-2951
4	SL-29-SEC-K9	Security License for Cisco 2901-2951
12	CON-SNT-2911SEC	SMARTnet 8x5xNBD Cisco2911 Security

Hardware: Cisco 3925 Router or approved equal

Quantity	Product	Description
1	CISCO3925-SEC/K9	Cisco 3925 Security Bundle w/SEC license PAK
1	SL-39-DATA-K9	Data License for Cisco Series
1	MEM-CF-256U1GB	256MB to 1GB Compact Flash Upgrade for Cisco 3900 Series
1	HWIC-1GE-SFP	GigE High Speed WIC With One SFP Slot
1	CAB-AC	AC Power Cord (North America C13, NEMA 5-15P, 2.1m
1	S39UK9-15001M	Cisco 3925-3945 IOS UNIVERSAL
1	PWR-3900-AC	Cisco 3925/3945 AC Power Supply
1	3900-FANASSY	Cisco 3925/3945 Fan Assembly (Bezel Included)
1	C3900-SPE 100/K9	Cisco Services Performance Engine 100 for Cisco 3925 ISR
1	ISR-CCP-EXP	Cisco Config Pro Express on Router Flash
1	MEM-3900-1GB-DEF	1 GB DRAM 512MB+512MB for Cisco 3925/3945 ISR (Default)
1	CAB-Console-USB	Console Cable 6ft with USB Type A and mini B
1	SL-39-IPB-K9	IP Base License for Cisco 3925/3945
1	SL-39-DEC-K9	Security License for Cisco 3900 Series
3	CON-SNTP-3925SEC	SMARTnet 8x5xNBD Cisco 3925 Security Bundle w/SEC License

Hardware: Cisco 3560X Series Switch or approved equal

Quantity	Product	Description
5	WS-3560X-48TS-S	Catalyst 3560X 48 48 Port Data IP Base
5	C3KX-NM-1G	Catalyst 3K-X 1G Network Module Option PID
5	CAB-CONSOLE-USB	Console Cable 6 ft with USB Type A and mini-B
5	S356XVK9T-12255SE	CAT 3560 IOS UNIVERSAL WITH WEB BASED DEV MGR
5	C3KX-PWR-350WAC/2	Catalyst 3K-X 350W AC Secondary Power Supply
5	CAB-SKX-AC	AC Power Cord for Catalyst 3K-X (North America)
15	CON-SNTP-3560X 4TS	SMARTnet 8x5xNBD Service

Hardware: Optics and GLC Connectors or approved equal

Quantity	Product	Description
4	GLC-T=	1000BASE-T SFP
4	GLC-SX-MM=	GE SFP, LC connector SX transceiver

Appendix B: Hardware Requirements (Lakewood Health Center)

Hardware: Cisco 2911 Router or approved equal

Quantity	Product	Description
1	CISCO2911-SEC/K9	Cisco 2911 Security Bundle w/SEC License PAK
1	MEM-2900-512U1GB	512MB to 1GB DRAM Upgrade (512MB+512MB) for 2901-2921
1	MEM-CF-256U512MB	256 to 512MB CF Upgrade Cisco 1900, 2900, 3900 ISR
1	HWIC-1GE-SFP	GigE High Speed WIC With One SFP Slot
1	VWIC2-2MFT-T1/E1	2-Port 2 nd Gen Multiflex Trunk Voice/Wan Int. Card – T1/E1
1	CAB-AC	AC Power Cord (North America) C13, NEMA 5-15P, 2.1m
1	CAB-Console-USB	Console Cable 6ft with USB Type A and mini-B
1	ISR-CCP-CD	Cisco Config Professional on CD, CCP-Express on Router Flash
1	S29UK9-15001M Cisco	2901-2921 IOS Universal
1	PWR-2911-AC	Cisco11AC Power Supply
1	SL-29-IB-K9	IP Base License for Cisco 2901-2951
1	SL-29-SEC-K9	Security License for Cisco 2901-2951
3	CON-SNT-2911SEC	SMARTnet 8x5xNBD Cisco2911 Security

Hardware: Cisco 3560X Series Switch or approved equal

Quantity	Product	Description
1	WS-3560X-48TS-S	Catalyst 3560X 48 48 Port Data IP Base
1	C3KX-NM-1G	Catalyst 3K-X 1G Network Module Option PID
1	CAB-CONSOLE-USB	Console Cable 6 ft with USB Type A and mini-B
1	S356XVK9T-12255SE	CAT 3560 IOS UNIVERSAL WITH WEB BASED DEV MGR
1	C3KX-PWR-350WAC/2	Catalyst 3K-X 350W AC Secondary Power Supply
1	CAB-SKX-AC	AC Power Cord for Catalyst 3K-X (North America)
3	CON-SNTP-3560X 4TS	SMARTnet 8x5xNBD Service

Hardware: Optics and GLC Connectors or approved equal

Quantity	Product	Description
4	GLC-T=	1000BASE-T SFP
4	GLC-SX-MM=	GE SFP, LC connector SX transceiver

Appendix B: Hardware Requirements (Lifecare Medical Center & Clinic)

Hardware: Cisco 3925 Router or approved equal

Quantity	Product	Description
1	CISCO3925-SEC/K9	Cisco 3925 Security Bundle w/SEC license PAK
1	SL-39-DATA-K9	Data License for Cisco Series
1	MEM-CF-256U1GB	256MB to 1GB Compact Flash Upgrade for Cisco 3900 Series
1	HWIC-1GE-SFP	GigE High Speed WIC With One SFP Slot
1	CAB-AC	AC Power Cord (North America C13, NEMA 5-15P, 2.1m)
1	S39UK9-15001M	Cisco 3925-3945 IOS UNIVERSAL
1	PWR-3900-AC	Cisco 3925/3945 AC Power Supply
1	3900-FANASSY	Cisco 3925/3945 Fan Assembly (Bezel Included)
1	C3900-SPE 100/K9	Cisco Services Performance Engine 100 for Cisco 3925 ISR
1	ISR-CCP-EXP	Cisco Config Pro Express on Router Flash
1	MEM-3900-1GB-DEF	1 GB DRAM 512MB+512MB for Cisco 3925/3945 ISR (Default)
1	CAB-Console-USB	Console Cable 6ft with USB Type A and mini B
1	SL-39-IPB-K9	IP Base License for Cisco 3925/3945
1	SL-39-DEC-K9	Security License for Cisco 3900 Series
3	CON-SNTP-3925SEC	SMARTnet 8x5xNBD Cisco 3925 Security Bundle w/SEC License

Hardware: Cisco 2911 Router or approved equal

Quantity	Product	Description
1	CISCO2911-SEC/K9	Cisco 2911 Security Bundle w/SEC License PAK
1	MEM-2900-512U1GB	512MB to 1GB DRAM Upgrade (512MB+512MB) for 2901-2921
1	MEM-CF-256U512MB	256 to 512MB CF Upgrade Cisco 1900, 2900, 3900 ISR
1	HWIC-1GE-SFP	GigE High Speed WIC With One SFP Slot
1	VWIC2-2MFT-T1/E1	2-Port 2 nd Gen Multiflex Trunk Voice/Wan Int. Card – T1/E1
1	CAB-AC	AC Power Cord (North America) C13, NEMA 5-15P, 2.1m
1	CAB-Console-USB	Console Cable 6ft with USB Type A and mini-B
1	ISR-CCP-CD	Cisco Config Professional on CD, CCP-Express on Router Flash
1	S29UK9-15001M Cisco	2901-2921 IOS Universal
1	PWR-2911-AC	Cisco11AC Power Supply
1	SL-29-IB-K9	IP Base License for Cisco 2901-2951
1	SL-29-SEC-K9	Security License for Cisco 2901-2951
3	CON-SNT-2911SEC	SMARTnet 8x5xNBD Cisco2911 Security

Hardware: Cisco 3560X Series Switch or approved equal

Quantity	Product	Description
2	WS-3560X-48TS-S	Catalyst 3560X 48 48 Port Data IP Base
2	C3KX-NM-1G	Catalyst 3K-X 1G Network Module Option PID
2	CAB-CONSOLE-USB	Console Cable 6 ft with USB Type A and mini-B
2	S356XVK9T-12255SE	CAT 3560 IOS UNIVERSAL WITH WEB BASED DEV MGR
2	C3KX-PWR-350WAC/2	Catalyst 3K-X 350W AC Secondary Power Supply
2	CAB-SKX-AC	AC Power Cord for Catalyst 3K-X (North America)
6	CON-SNTP-3560X 4TS	SMARTnet 8x5xNBD Service

Hardware: Optics and GLC Connectors or approved equal

Quantity	Product	Description
4	GLC-T=	1000BASE-T SFP
4	GLC-SX-MM=	GE SFP, LC connector SX transceiver

Appendix B: Hardware Requirements (Mercy Hospital & Healthcare Center)

Hardware: Cisco ASR 1001 Router or approved equal

Quantity	Product	Description
1	ASR1001	Cisco ASR1001 System Crypto, 4built-in GE, Dual P/S
2	ASR1001-PWR-AC	Cisco ASR1001 AC Power Supply
2	CAB-AC-RA	Power Cord, 110V, Right Angle
2	SFP-GE-S	1000BASE-SX SFP (DOM)
2	SFP-GE-Z	1000BASE-ZX Gigabit Ethernet SFP (DOM)
1	M-ASR1K-1001-4GB	Cisco ASR1001 4GB DRAM
1	SASR1001UK9-32S	Cisco ASR 1001 IOS XE – ECRYPTION UNIVERSAL
1	SLASR1-AIS	Cisco ASR 1001 Advanced IP Services License
1	FLASHR1-IOSRED	SW Redundancy License for ASR1000 Series

Hardware: Cisco 3560X Series Switch or approved equal

Quantity	Product	Description
1	WS-3560X-48TS-S	Catalyst 3560X 48 48 Port Data IP Base
1	C3KX-NM-1G	Catalyst 3K-X 1G Network Module Option PID
1	CAB-CONSOLE-USB	Console Cable 6 ft with USB Type A and mini-B
1	S356XVK9T-12255SE	CAT 3560 IOS UNIVERSAL WITH WEB BASED DEV MGR
1	C3KX-PWR-350WAC/2	Catalyst 3K-X 350W AC Secondary Power Supply
1	CAB-SKX-AC	AC Power Cord for Catalyst 3K-X (North America)
3	CON-SNTP-3560X 4TS	SMARTnet 8x5xNBD Service

Hardware: Optics and GLC Connectors or approved equal

Quantity	Product	Description
4	GLC-T=	1000BASE-T SFP
4	GLC-SX-MM=	GE SFP, LC connector SX transceiver

Appendix B: Hardware Requirements (Migrant Health Services)

Hardware: Cisco 2800 Series Module Cards or approved equal

Quantity	Product	Description
4	HWIC-1GE-SFP	GigE High Speed WIC With One SFP Slot
10	VWIC2-2MFT-T1/E1	2-Port 2 nd Gen Multiflex Trunk Voice/Wan Int. Card – T1/E1

Appendix B: Hardware Requirements (Nelson County Health System Hospital & Clinic)

Hardware: Cisco 2911 Router or approved equal

Quantity	Product	Description
1	CISCO2911-SEC/K9	Cisco 2911 Security Bundle w/SEC License PAK
1	MEM-2900-512U1GB	512MB to 1GB DRAM Upgrade (512MB+512MB) for 2901-2921
1	MEM-CF-256U512MB	256 to 512MB CF Upgrade Cisco 1900, 2900, 3900 ISR
1	HWIC-1GE-SFP	GigE High Speed WIC With One SFP Slot
2	VVIC2-2MFT-T1/E1	2-Port 2 nd Gen Multiflex Trunk Voice/Wan Int. Card – T1/E1
1	CAB-AC	AC Power Cord (North America) C13, NEMA 5-15P, 2.1m
1	CAB-Console-USB	Console Cable 6ft with USB Type A and mini-B
1	ISR-CCP-CD	Cisco Config Professional on CD, CCP-Express on Router Flash
1	S29UK9-15001M Cisco	2901-2921 IOS Universal
1	PWR-2911-AC	Cisco11AC Power Supply
1	SL-29-IB-K9	IP Base License for Cisco 2901-2951
1	SL-29-SEC-K9	Security License for Cisco 2901-2951
3	CON-SNT-2911SEC	SMARTnet 8x5xNBD Cisco2911 Security

Hardware: Cisco 3560X Series Switch or approved equal

Quantity	Product	Description
1	WS-3560X-48TS-S	Catalyst 3560X 48 48 Port Data IP Base
1	C3KX-NM-1G	Catalyst 3K-X 1G Network Module Option PID
1	CAB-CONSOLE-USB	Console Cable 6 ft with USB Type A and mini-B
1	S356XVK9T-12255SE	CAT 3560 IOS UNIVERSAL WITH WEB BASED DEV MGR
1	C3KX-PWR-350WAC/2	Catalyst 3K-X 350W AC Secondary Power Supply
1	CAB-SKX-AC	AC Power Cord for Catalyst 3K-X (North America)
3	CON-SNTP-3560X 4TS	SMARTnet 8x5xNBD Service

Hardware: Optics and GLC Connectors or approved equal

Quantity	Product	Description
4	GLC-T=	1000BASE-T SFP
4	GLC-SX-MM=	GE SFP, LC connector SX transceiver

Appendix B: Hardware Requirements (North Valley Health Center)

Hardware: Cisco 2911 Router or approved equal

Quantity	Product	Description
1	CISCO2911-SEC/K9	Cisco 2911 Security Bundle w/SEC License PAK
1	MEM-2900-512U1GB	512MB to 1GB DRAM Upgrade (512MB+512MB) for 2901-2921
1	MEM-CF-256U512MB	256 to 512MB CF Upgrade Cisco 1900, 2900, 3900 ISR
1	HWIC-1GE-SFP	GigE High Speed WIC With One SFP Slot
2	VWIC2-2MFT-T1/E1	2-Port 2 nd Gen Multiflex Trunk Voice/Wan Int. Card – T1/E1
1	CAB-AC	AC Power Cord (North America) C13, NEMA 5-15P, 2.1m
1	CAB-Console-USB	Console Cable 6ft with USB Type A and mini-B
1	ISR-CCP-CD	Cisco Config Professional on CD, CCP-Express on Router Flash
1	S29UK9-15001M Cisco	2901-2921 IOS Universal
1	PWR-2911-AC	Cisco11AC Power Supply
1	SL-29-IB-K9	IP Base License for Cisco 2901-2951
1	SL-29-SEC-K9	Security License for Cisco 2901-2951
3	CON-SNT-2911SEC	SMARTnet 8x5xNBD Cisco2911 Security

Hardware: Cisco 3560X Series Switch or approved equal

Quantity	Product	Description
1	WS-3560X-48TS-S	Catalyst 3560X 48 48 Port Data IP Base
1	C3KX-NM-1G	Catalyst 3K-X 1G Network Module Option PID
1	CAB-CONSOLE-USB	Console Cable 6 ft with USB Type A and mini-B
1	S356XVK9T-12255SE	CAT 3560 IOS UNIVERSAL WITH WEB BASED DEV MGR
1	C3KX-PWR-350WAC/2	Catalyst 3K-X 350W AC Secondary Power Supply
1	CAB-SKX-AC	AC Power Cord for Catalyst 3K-X (North America)
3	CON-SNTP-3560X 4TS	SMARTnet 8x5xNBD Service

Hardware: Optics and GLC Connectors or approved equal

Quantity	Product	Description
4	GLC-T=	1000BASE-T SFP
4	GLC-SX-MM=	GE SFP, LC connector SX transceiver

Appendix B: Hardware Requirements (Northern Pines Mental Health)

Hardware: Cisco ASR1004 Router or approved equal (POP Location)

Quantity	Product	Description
1	ASR1004	Cisco ASR1004 Chassis, Dual P/S
2	ASR1000-ESP10	Cisco ASR1000 Embedded Services Processor 10G, Crypto
1	ASR1000-RP1	Cisco ASR1000 Route Processor 1, 2GB DRAM
1	M-ASR1K-RP-4GB	Cisco ASR1000 RP1 4GB DRAM
1	M-ASR1K-HDD-40GB	Cisco ASR1000 RP1 40GB HDD
1	ASR1000-RP1	Cisco ASR1000 Route Processor 1, 2GB DRAM
1	M-ASR1K-RP-4GB	Cisco ASR1000 RP1 4GB DRAM
1	M-ASR1K-HDD-40GB	Cisco ASR1000 RP1 40GB HDD
1	ASR1000-SIP10	Cisco ASR-1000 SPA Interface Processor 10
1	MEMUSB-1024FT	1GB USB Flash Token for Cisco ASR 1000 Series
1	SASR1R1-AESK9-26SR	Cisco ASR 1000 Series RP1 Advanced Enterprise Services
2	SPA-8XCHT1/E1	Cisco 8-port Channelized T1/E1 Shared Port Adapter
1	SPA-8X1GE-V2	Cisco 8-port Gigabit Ethernet Shared Port Adapter, Version 2
1	SPA-2XCT3/DS0	2-port Channelized T3 to DS0 Shared Port Adapter
2	ASR1004-PWR-AC	Cisco ASR1004 AC Power Supply
2	CAB-AC-RA	Power Cord, 110V, Right Angle
1	ASR1000-Rack Kit	Cisco Rack Kit for ASR1000
1	ASR1000-SPA	SPA for ASR1000, No Physical Part, For Tracking Only
1	ASR1000-SPA	SPA for ASR1000, No Physical Part, For Tracking Only
1	ASR1000-SPA	SPA for ASR1000, No Physical Part, For Tracking Only
6	CON-SNTP-ASRESP10	SMARTNET 24X7X4 Cisco ASR1000 Embedded Services Processor
3	CON-SNTP-ASRRP1	SMARTNET 24X7X4 Cisco ASR1000 Route Processor 1,2GB DRAM
3	CON-SNTP-ASRRP1	SMARTNET 24X7X4 Cisco ASR1000 Route Processor 1,2GB DRAM
3	CON-SNTP-ASRSIP10	SMARTNET 24X7X4 Cisco ASR1000 SPA Interface Processor 10
3	CON-SNTP-ASR1K4	SMARTNET 24X7X4 Cisco ASR1004 Chassis, Dual P/S
3	CON-SNTP-ASRAISK	SMARTNET 24X7X4 Cisco ASR1000 Series RP1 ADV ENT SERVICE
3	CON-SNTP-8X1GEV2	SMARTNET 24X7X4 8-Port Gigabit Ethernet Shared Port Adapter
6	CON-SNTP-8XCHT1E1	SMARTNET 24X7X4 8Prt Channel T1/E1
3	CON-SNTP-2XCT3DSO	SMARTNET 24X7X4 2-port Channelized T3 to DS0 Shared

Hardware: Cisco 3560X Series Switch or approved equal (POP Location)

Quantity	Product	Description
1	WS-3560X-48TS-S	Catalyst 3560X 48 48 Port Data IP Base
2	C3KX-PWR-350WAC/2	Catalyst 3K-X 350W AC Secondary Power Supply
1	C3KX-NM-1G	Catalyst 3K-X 1G Network Module Option PID
2	CAB-SKX-AC	AC Power Cord for Catalyst 3K-X (North America)
1	CAB-CONSOLE-USB	Console Cable 6 ft with USB Type A and mini-B
1	S356XVK9T-12255SE	CAT 3560 IOS UNIVERSAL WITH WEB BASED DEV MGR
3	CON-SNTP-3560X 4TS	SMARTnet 24x7x4 Service

Hardware: Cisco ASA5520 Firewalls or approved equal (POP Location)

Quantity	Product	Description
1	ASA5520-BUN-K9	ASA 5520 Appliance with SW, HA, 4GE+1FE, 3DES/AES
1	CAB-AC	AC Power Cord (North America), C13, NEMA 5-15P, 2.1m
1	SF-ASA-7.0-K8	ASA 5500 Series Software v7.0
1	ASA5520-VPN-PL	ASA 5520 VPN Plus 750 IPsec License
1	ASA5500-ENCR-K9	ASA 5500 Strong Encryption License (3DES/AES)
1	ASA-VPN-CLNT-K9	Cisco VPN Client Software (Windows, Solaris, Linux, Mac)
1	SSM-BLANK	ASA/IPS SSM Slot Cover
1	ASA-180W-PWR-AC	ASA 180W AC Power Supply
3	CON-SNT-AS2BUNK9	SMARTNET 8X5XNBD ASA5520 w/300 VPN Prs, 4GE+1FE,3DES/AES

Hardware: Cisco 2911 Router or approved equal (Other Sites)

Quantity	Product	Description
8	CISCO2911-SEC/K9	Cisco 2911 Security Bundle w/SEC License PAK
8	MEM-2900-512U1GB	512MB to 1GB DRAM Upgrade (512MB+512MB) for 2901-2921
8	MEM-CF-256U512MB	256 to 512MB CF Upgrade Cisco 1900, 2900, 3900 ISR
8	HWIC-1GE-SFP	GigE High Speed WIC With One SFP Slot
6	VVIC2-2MFT-T1/E1	2-Port 2 nd Gen Multiflex Trunk Voice/Wan Int. Card – T1/E1
8	CAB-AC	AC Power Cord (North America) C13, NEMA 5-15P, 2.1m
8	CAB-Console-USB	Console Cable 6ft with USB Type A and mini-B
8	ISR-CCP-CD	Cisco Config Professional on CD, CCP-Express on Router Flash
8	S29UK9-15001M Cisco	2901-2921 IOS Universal
8	PWR-2911-AC	Cisco11AC Power Supply
8	SL-29-IB-K9	IP Base License for Cisco 2901-2951
8	SL-29-SEC-K9	Security License for Cisco 2901-2951
24	CON-SNT-2911SEC	SMARTnet 8x5xNBD Cisco2911 Security

Hardware: Cisco 3560X Series Switch or approved equal (Other Sites)

Quantity	Product	Description
8	WS-3560X-48TS-S	Catalyst 3560X 48 48 Port Data IP Base
8	C3KX-NM-1G	Catalyst 3K-X 1G Network Module Option PID
8	CAB-CONSOLE-USB	Console Cable 6 ft with USB Type A and mini-B
8	S356XVK9T-12255SE	CAT 3560 IOS UNIVERSAL WITH WEB BASED DEV MGR
8	C3KX-PWR-350WAC/2	Catalyst 3K-X 350W AC Secondary Power Supply
8	CAB-SKX-AC	AC Power Cord for Catalyst 3K-X (North America)
24	CON-SNTP-3560X 4TS	SMARTnet 8x5xNBD Service

Hardware: Optics and GLC Connectors or approved equal (POP Location & Sites)

Quantity	Product	Description
20	GLC-T=	1000BASE-T SFP
20	GLC-SX-MM=	GE SFP, LC connector SX transceiver

Appendix B: Hardware Requirements (Northwestern Mental Health Center)

Hardware: Cisco 3925 Router or approved equal

Quantity	Product	Description
1	CISCO3925-SEC/K9	Cisco 3925 Security Bundle w/SEC license PAK
1	SL-39-DATA-K9	Data License for Cisco Series
1	MEM-CF-256U1GB	256MB to 1GB Compact Flash Upgrade for Cisco 3900 Series
1	HWIC-1GE-SFP	GigE High Speed WIC With One SFP Slot
1	CAB-AC	AC Power Cord (North America C13, NEMA 5-15P, 2.1m
1	S39UK9-15001M	Cisco 3925-3945 IOS UNIVERSAL
1	PWR-3900-AC	Cisco 3925/3945 AC Power Supply
1	3900-FANASSY	Cisco 3925/3945 Fan Assembly (Bezel Included)
1	C3900-SPE 100/K9	Cisco Services Performace Engine 100 for Cisco 3925 ISR
1	ISR-CCP-EXP	Cisco Config Pro Express on Router Flash
1	MEM-3900-1GB-DEF	1 GB DRAM 512MB+512MB for Cisco 3925/3945 ISR (Default)
1	CAB-Console-USB	Console Cable 6ft with USB Type A and mini B
1	SL-39-IPB-K9	IP Base License for Cisco 3925/3945
1	SL-39-DEC-K9	Security License for Cisco 3900 Series
3	CON-SNTP-3925SEC	SMARTnet 8x5xNBD Cisco 3925 Security Bundle w/SEC License

Or

Hardware: Cisco 2911 Router or approved equal

Quantity	Product	Description
1	CISCO2911-SEC/K9	Cisco 2911 Security Bundle w/SEC License PAK
1	MEM-2900-512U1GB	512MB to 1GB DRAM Upgrade (512MB+512MB) for 2901-2921
1	MEM-CF-256U512MB	256 to 512MB CF Upgrade Cisco 1900, 2900, 3900 ISR
1	HWIC-1GE-SFP	GigE High Speed WIC With One SFP Slot
1	CAB-AC	AC Power Cord (North America) C13, NEMA 5-15P, 2.1m
1	CAB-Console-USB	Console Cable 6ft with USB Type A and mini-B
1	ISR-CCP-CD	Cisco Config Professional on CD, CCP-Express on Router Flash
1	S29UK9-15001M Cisco	2901-2921 IOS Universal
1	PWR-2911-AC	Cisco11AC Power Supply
1	SL-29-IB-K9	IP Base License for Cisco 2901-2951
1	SL-29-SEC-K9	Security License for Cisco 2901-2951
3	CON-SNT-2911SEC	SMARTnet 8x5xNBD Cisco2911 Security

Hardware: Cisco 3560X Series Switch or approved equal

Quantity	Product	Description
1	WS-3560X-48TS-S	Catalyst 3560X 48 48 Port Data IP Base
1	C3KX-NM-1G	Catalyst 3K-X 1G Network Module Option PID
1	CAB-CONSOLE-USB	Console Cable 6 ft with USB Type A and mini-B
1	S356XVK9T-12255SE	CAT 3560 IOS UNIVERSAL WITH WEB BASED DEV MGR
1	C3KX-PWR-350WAC/2	Catalyst 3K-X 350W AC Secondary Power Supply
1	CAB-SKX-AC	AC Power Cord for Catalyst 3K-X (North America)
3	CON-SNTP-3560X 4TS	SMARTnet 8x5xNBD Service

Hardware: Optics and GLC Connectors or approved equal

Quantity	Product	Description
4	GLC-T=	1000BASE-T SFP
4	GLC-SX-MM=	GE SFP, LC connector SX transceiver

Appendix B: Hardware Requirements (Pembina County Memorial Hospital)

Hardware: Cisco 2911 Router or approved equal

Quantity	Product	Description
1	CISCO2911-SEC/K9	Cisco 2911 Security Bundle w/SEC License PAK
1	MEM-2900-512U1GB	512MB to 1GB DRAM Upgrade (512MB+512MB) for 2901-2921
1	MEM-CF-256U512MB	256 to 512MB CF Upgrade Cisco 1900, 2900, 3900 ISR
1	HWIC-1GE-SFP	GigE High Speed WIC With One SFP Slot
2	VWIC2-2MFT-T1/E1	2-Port 2 nd Gen Multiflex Trunk Voice/Wan Int. Card – T1/E1
1	CAB-AC	AC Power Cord (North America) C13, NEMA 5-15P, 2.1m
1	CAB-Console-USB	Console Cable 6ft with USB Type A and mini-B
1	ISR-CCP-CD	Cisco Config Professional on CD, CCP-Express on Router Flash
1	S29UK9-15001M Cisco	2901-2921 IOS Universal
1	PWR-2911-AC	Cisco11AC Power Supply
1	SL-29-IB-K9	IP Base License for Cisco 2901-2951
1	SL-29-SEC-K9	Security License for Cisco 2901-2951
3	CON-SNT-2911SEC	SMARTnet 8x5xNBD Cisco2911 Security

Hardware: Cisco 3560X Series Switch or approved equal

Quantity	Product	Description
1	WS-3560X-48TS-S	Catalyst 3560X 48 48 Port Data IP Base
1	C3KX-NM-1G	Catalyst 3K-X 1G Network Module Option PID
1	CAB-CONSOLE-USB	Console Cable 6 ft with USB Type A and mini-B
1	S356XVK9T-12255SE	CAT 3560 IOS UNIVERSAL WITH WEB BASED DEV MGR
1	C3KX-PWR-350WAC/2	Catalyst 3K-X 350W AC Secondary Power Supply
1	CAB-SKX-AC	AC Power Cord for Catalyst 3K-X (North America)
3	CON-SNTP-3560X 4TS	SMARTnet 8x5xNBD Service

Hardware: Optics and GLC Connectors or approved equal

Quantity	Product	Description
4	GLC-T=	100BASE-T SFP
4	GLC-SX-MM=	GE SFP, LC connector SX transceiver

Appendix B: Hardware Requirements (Range Mental Health Center)

Hardware: Cisco 3925 Router or approved equal

Quantity	Product	Description
1	CISCO3925-SEC/K9	Cisco 3925 Security Bundle w/SEC license PAK
1	SL-39-DATA-K9	Data License for Cisco Series
1	MEM-CF-256U1GB	256MB to 1GB Compact Flash Upgrade for Cisco 3900 Series
1	HWIC-1GE-SFP	GigE High Speed WIC With One SFP Slot
6	VVIC2-2MFT-T1/E1	2-Port 2 nd Gen Multiflex Trunk Voice/Wan Int. Card – T1/E1
1	CAB-AC	AC Power Cord (North America C13, NEMA 5-15P, 2.1m)
1	S39UK9-15001M	Cisco 3925-3945 IOS UNIVERSAL
1	PWR-3900-AC	Cisco 3925/3945 AC Power Supply
1	3900-FANASSY	Cisco 3925/3945 Fan Assembly (Bezel Included)
1	C3900-SPE 100/K9	Cisco Services Performace Engine 100 for Cisco 3925 ISR
1	ISR-CCP-EXP	Cisco Config Pro Express on Router Flash
1	MEM-3900-1GB-DEF	1 GB DRAM 512MB+512MB for Cisco 3925/3945 ISR (Default)
1	CAB-Console-USB	Console Cable 6ft with USB Type A and mini B
1	SL-39-IPB-K9	IP Base License for Cisco 3925/3945
1	SL-39-DEC-K9	Security License for Cisco 3900 Series
3	CON-SNTP-3925SEC	SMARTnet 8x5xNBD Cisco 3925 Security Bundle w/SEC License

Hardware: Cisco 2911 Router or approved equal

Quantity	Product	Description
3	CISCO2911-SEC/K9	Cisco 2911 Security Bundle w/SEC License PAK
3	MEM-2900-512U1GB	512MB to 1GB DRAM Upgrade (512MB+512MB) for 2901-2921
3	MEM-CF-256U512MB	256 to 512MB CF Upgrade Cisco 1900, 2900, 3900 ISR
3	HWIC-1GE-SFP	GigE High Speed WIC With One SFP Slot
6	VVIC2-2MFT-T1/E1	2-Port 2 nd Gen Multiflex Trunk Voice/Wan Int. Card – T1/E1
3	CAB-AC	AC Power Cord (North America) C13, NEMA 5-15P, 2.1m
3	CAB-Console-USB	Console Cable 6ft with USB Type A and mini-B
3	ISR-CCP-CD	Cisco Config Professional on CD, CCP-Express on Router Flash
3	S29UK9-15001M Cisco	2901-2921 IOS Universal
3	PWR-2911-AC	Cisco11AC Power Supply
3	SL-29-IB-K9	IP Base License for Cisco 2901-2951
3	SL-29-SEC-K9	Security License for Cisco 2901-2951
9	CON-SNT-2911SEC	SMARTnet 8x5xNBD Cisco2911 Security

Hardware: Cisco 3560X Series Switch or approved equal

Quantity	Product	Description
4	WS-3560X-48TS-S	Catalyst 3560X 48 48 Port Data IP Base
4	C3KX-NM-1G	Catalyst 3K-X 1G Network Module Option PID
4	CAB-CONSOLE-USB	Console Cable 6 ft with USB Type A and mini-B
4	S356XVK9T-12255SE	CAT 3560 IOS UNIVERSAL WITH WEB BASED DEV MGR
4	C3KX-PWR-350WAC/2	Catalyst 3K-X 350W AC Secondary Power Supply
4	CAB-SKX-AC	AC Power Cord for Catalyst 3K-X (North America)
12	CON-SNTP-3560X 4TS	SMARTnet 8x5xNBD Service

Hardware: Optics and GLC Connectors or approved equal

Quantity	Product	Description
10	GLC-T=	1000BASE-T SFP
10	GLC-SX-MM=	GE SFP, LC connector SX transceiver

Appendix B: Hardware Requirements (Regina Medical Center)

Hardware: Cisco ASR 1001 Router or approved equal

Quantity	Product	Description
1	ASR1001	Cisco ASR1001 System Crypto, 4built-in GE, Dual P/S
2	ASR1001-PWR-AC	Cisco ASR1001 AC Power Supply
2	CAB-AC-RA	Power Cord, 110V, Right Angle
2	SFP-GE-S	1000BASE-SX SFP (DOM)
2	SFP-GE-Z	1000BASE-ZX Gigabit Ethernet SFP (DOM)
1	M-ASR1K-1001-4GB	Cisco ASR1001 4GB DRAM
1	SASR1001UK9-32S	Cisco ASR 1001 IOS XE – ECRYPTION UNIVERSAL
1	SLASR1-AIS	Cisco ASR 1001 Advanced IP Services License
1	FLASHR1-IOSRED	SW Redundancy License for ASR1000 Series

Hardware: Cisco 3560X Series Switch or approved equal

Quantity	Product	Description
1	WS-3560X-48TS-S	Catalyst 3560X 48 48 Port Data IP Base
1	C3KX-NM-1G	Catalyst 3K-X 1G Network Module Option PID
1	CAB-CONSOLE-USB	Console Cable 6 ft with USB Type A and mini-B
1	S356XVK9T-12255SE	CAT 3560 IOS UNIVERSAL WITH WEB BASED DEV MGR
1	C3KX-PWR-350WAC/2	Catalyst 3K-X 350W AC Secondary Power Supply
1	CAB-SKX-AC	AC Power Cord for Catalyst 3K-X (North America)
3	CON-SNTP-3560X 4TS	SMARTnet 8x5xNBD Service

Hardware: Optics and GLC Connectors or approved equal

Quantity	Product	Description
4	GLC-T=	1000BASE-T SFP
4	GLC-SX-MM=	GE SFP, LC connector SX transceiver

Appendix B: Hardware Requirements (Renville County Hospital & Clinics)

Hardware: Cisco 3925 Router or approved equal

Quantity	Product	Description
1	CISCO3925-SEC/K9	Cisco 3925 Security Bundle w/SEC license PAK
1	SL-39-DATA-K9	Data License for Cisco Series
1	MEM-CF-256U1GB	256MB to 1GB Compact Flash Upgrade for Cisco 3900 Series
1	HWIC-1GE-SFP	GigE High Speed WIC With One SFP Slot
2	VWIC2-2MFT-T1/E1	2-Port 2 nd Gen Multiflex Trunk Voice/Wan Int. Card – T1/E1
1	CAB-AC	AC Power Cord (North America C13, NEMA 5-15P, 2.1m
1	S39UK9-15001M	Cisco 3925-3945 IOS UNIVERSAL
1	PWR-3900-AC	Cisco 3925/3945 AC Power Supply
1	3900-FANASSY	Cisco 3925/3945 Fan Assembly (Bezel Included)
1	C3900-SPE 100/K9	Cisco Services Performance Engine 100 for Cisco 3925 ISR
1	ISR-CCP-EXP	Cisco Config Pro Express on Router Flash
1	MEM-3900-1GB-DEF	1 GB DRAM 512MB+512MB for Cisco 3925/3945 ISR (Default)
1	CAB-Console-USB	Console Cable 6ft with USB Type A and mini B
1	SL-39-IPB-K9	IP Base License for Cisco 3925/3945
1	SL-39-DEC-K9	Security License for Cisco 3900 Series
3	CON-SNTP-3925SEC	SMARTnet 8x5xNBD Cisco 3925 Security Bundle w/SEC License

Hardware: Cisco 2911 Router or approved equal

Quantity	Product	Description
2	CISCO2911-SEC/K9	Cisco 2911 Security Bundle w/SEC License PAK
2	MEM-2900-512U1GB	512MB to 1GB DRAM Upgrade (512MB+512MB) for 2901-2921
2	MEM-CF-256U512MB	256 to 512MB CF Upgrade Cisco 1900, 2900, 3900 ISR
2	HWIC-1GE-SFP	GigE High Speed WIC With One SFP Slot
6	VWIC2-2MFT-T1/E1	2-Port 2 nd Gen Multiflex Trunk Voice/Wan Int. Card – T1/E1
2	CAB-AC	AC Power Cord (North America) C13, NEMA 5-15P, 2.1m
2	CAB-Console-USB	Console Cable 6ft with USB Type A and mini-B
2	ISR-CCP-CD	Cisco Config Professional on CD, CCP-Express on Router Flash
2	S29UK9-15001M Cisco	2901-2921 IOS Universal
2	PWR-2911-AC	Cisco11AC Power Supply
2	SL-29-IB-K9	IP Base License for Cisco 2901-2951
2	SL-29-SEC-K9	Security License for Cisco 2901-2951
6	CON-SNT-2911SEC	SMARTnet 8x5xNBD Cisco2911 Security

Hardware: Cisco 3560X Series Switch or equal

Quantity	Product	Description
3	WS-3560X-48TS-S	Catalyst 3560X 48 48 Port Data IP Base
3	C3KX-NM-1G	Catalyst 3K-X 1G Network Module Option PID
3	CAB-CONSOLE-USB	Console Cable 6 ft with USB Type A and mini-B
3	S356XVK9T-12255SE	CAT 3560 IOS UNIVERSAL WITH WEB BASED DEV MGR
3	C3KX-PWR-350WAC/2	Catalyst 3K-X 350W AC Secondary Power Supply
3	CAB-SKX-AC	AC Power Cord for Catalyst 3K-X (North America)
3	CON-SNTP-3560X 4TS	SMARTnet 8x5xNBD Service

Hardware: Optics and GLC Connectors or approved equal

Quantity	Product	Description
8	GLC-T=	100BASE-T SFP
8	GLC-SX-MM=	GE SFP, LC connector SX transceiver

Appendix B: Hardware Requirements (River's Edge Hospital & Clinic)

Hardware: Cisco 3925 Router or approved equal

Quantity	Product	Description
1	CISCO3925-SEC/K9	Cisco 3925 Security Bundle w/SEC license PAK
1	SL-39-DATA-K9	Data License for Cisco Series
1	MEM-CF-256U1GB	256MB to 1GB Compact Flash Upgrade for Cisco 3900 Series
1	HWIC-1GE-SFP	GigE High Speed WIC With One SFP Slot
2	VWIC2-2MFT-T1/E1	2-Port 2 nd Gen Multiflex Trunk Voice/Wan Int. Card – T1/E1
1	CAB-AC	AC Power Cord (North America C13, NEMA 5-15P, 2.1m)
1	S39UK9-15001M	Cisco 3925-3945 IOS UNIVERSAL
1	PWR-3900-AC	Cisco 3925/3945 AC Power Supply
1	3900-FANASSY	Cisco 3925/3945 Fan Assembly (Bezel Included)
1	C3900-SPE 100/K9	Cisco Services Performace Engine 100 for Cisco 3925 ISR
1	ISR-CCP-EXP	Cisco Config Pro Express on Router Flash
1	MEM-3900-1GB-DEF	1 GB DRAM 512MB+512MB for Cisco 3925/3945 ISR (Default)
1	CAB-Console-USB	Console Cable 6ft with USB Type A and mini B
1	SL-39-IPB-K9	IP Base License for Cisco 3925/3945
1	SL-39-DEC-K9	Security License for Cisco 3900 Series
3	CON-SNTP-3925SEC	SMARTnet 8x5xNBD Cisco 3925 Security Bundle w/SEC License

Hardware: Cisco 2911 Router or approved equal

Quantity	Product	Description
1	CISCO2911-SEC/K9	Cisco 2911 Security Bundle w/SEC License PAK
1	MEM-2900-512U1GB	512MB to 1GB DRAM Upgrade (512MB+512MB) for 2901-2921
1	MEM-CF-256U512MB	256 to 512MB CF Upgrade Cisco 1900, 2900, 3900 ISR
1	HWIC-1GE-SFP	GigE High Speed WIC With One SFP Slot
3	VWIC2-2MFT-T1/E1	2-Port 2 nd Gen Multiflex Trunk Voice/Wan Int. Card – T1/E1
1	CAB-AC	AC Power Cord (North America) C13, NEMA 5-15P, 2.1m
1	CAB-Console-USB	Console Cable 6ft with USB Type A and mini-B
1	ISR-CCP-CD	Cisco Config Professional on CD, CCP-Express on Router Flash
1	S29UK9-15001M Cisco	2901-2921 IOS Universal
1	PWR-2911-AC	Cisco11AC Power Supply
1	SL-29-IB-K9	IP Base License for Cisco 2901-2951
1	SL-29-SEC-K9	Security License for Cisco 2901-2951
3	CON-SNT-2911SEC	SMARTnet 8x5xNBD Cisco2911 Security

Hardware: Cisco 3560X Series Switch or equal

Quantity	Product	Description
2	WS-3560X-48TS-S	Catalyst 3560X 48 48 Port Data IP Base
2	C3KX-NM-1G	Catalyst 3K-X 1G Network Module Option PID
2	CAB-CONSOLE-USB	Console Cable 6 ft with USB Type A and mini-B
2	S356XVK9T-12255SE	CAT 3560 IOS UNIVERSAL WITH WEB BASED DEV MGR
2	C3KX-PWR-350WAC/2	Catalyst 3K-X 350W AC Secondary Power Supply
2	CAB-SKX-AC	AC Power Cord for Catalyst 3K-X (North America)
6	CON-SNTP-3560X 4TS	SMARTnet 8x5xNBD Service

Hardware: Optics and GLC Connectors or approved equal

Quantity	Product	Description
8	GLC-T=	1000BASE-T SFP
8	GLC-SX-MM=	GE SFP, LC connector SX transceiver

Appendix B: Hardware Requirements (Riverview Healthcare Association)

Hardware: Cisco 3925 Router or approved equal

Quantity	Product	Description
1	CISCO3925-SEC/K9	Cisco 3925 Security Bundle w/SEC license PAK
1	SL-39-DATA-K9	Data License for Cisco Series
1	MEM-CF-256U1GB	256MB to 1GB Compact Flash Upgrade for Cisco 3900 Series
1	HWIC-1GE-SFP	GigE High Speed WIC With One SFP Slot
2	VVIC2-2MFT-T1/E1	2-Port 2 nd Gen Multiflex Trunk Voice/Wan Int. Card – T1/E1
1	CAB-AC	AC Power Cord (North America C13, NEMA 5-15P, 2.1m)
1	S39UK9-15001M	Cisco 3925-3945 IOS UNIVERSAL
1	PWR-3900-AC	Cisco 3925/3945 AC Power Supply
1	3900-FANASSY	Cisco 3925/3945 Fan Assembly (Bezel Included)
1	C3900-SPE 100/K9	Cisco Services Performace Engine 100 for Cisco 3925 ISR
1	ISR-CCP-EXP	Cisco Config Pro Express on Router Flash
1	MEM-3900-1GB-DEF	1 GB DRAM 512MB+512MB for Cisco 3925/3945 ISR (Default)
1	CAB-Console-USB	Console Cable 6ft with USB Type A and mini B
1	SL-39-IPB-K9	IP Base License for Cisco 3925/3945
1	SL-39-DEC-K9	Security License for Cisco 3900 Series
3	CON-SNTP-3925SEC	SMARTnet 8x5xNBD Cisco 3925 Security Bundle w/SEC License

Hardware: Cisco 3560X Series Switch or approved equal

Quantity	Product	Description
1	WS-3560X-48TS-S	Catalyst 3560X 48 48 Port Data IP Base
1	C3KX-NM-1G	Catalyst 3K-X 1G Network Module Option PID
1	CAB-CONSOLE-USB	Console Cable 6 ft with USB Type A and mini-B
1	S356XVK9T-12255SE	CAT 3560 IOS UNIVERSAL WITH WEB BASED DEV MGR
1	C3KX-PWR-350WAC/2	Catalyst 3K-X 350W AC Secondary Power Supply
1	CAB-SKX-AC	AC Power Cord for Catalyst 3K-X (North America)
3	CON-SNTP-3560X 4TS	SMARTnet 8x5xNBD Service

Hardware: Optics and GLC Connectors or approved equal

Quantity	Product	Description
4	GLC-T=	1000BASE-T SFP
4	GLC-SX-MM=	GE SFP, LC connector SX transceiver

Appendix B: Hardware Requirements (Riverwood Health Care & Clinics)

Hardware: Cisco ASR 1001 Router or approved equal

Quantity	Product	Description
1	ASR1001	Cisco ASR1001 System Crypto, 4built-in GE, Dual P/S
2	ASR1001-PWR-AC	Cisco ASR1001 AC Power Supply
2	CAB-AC-RA	Power Cord, 110V, Right Angle
2	SFP-GE-S	1000BASE-SX SFP (DOM)
2	SFP-GE-Z	1000BASE-ZX Gigabit Ethernet SFP (DOM)
1	M-ASR1K-1001-4GB	Cisco ASR1001 4GB DRAM
1	SASR1001UK9-32S	Cisco ASR 1001 IOS XE – ECRYPTION UNIVERSAL
1	SLASR1-AIS	Cisco ASR 1001 Advanced IP Services License
1	FLASHR1-IOSRED	SW Redundancy License for ASR1000 Series

Hardware: Cisco 2911 Router or approved equal

Quantity	Product	Description
2	CISCO2911-SEC/K9	Cisco 2911 Security Bundle w/SEC License PAK
2	MEM-2900-512U1GB	512MB to 1GB DRAM Upgrade (512MB+512MB) for 2901-2921
2	MEM-CF-256U512MB	256 to 512MB CF Upgrade Cisco 1900, 2900, 3900 ISR
2	HWIC-1GE-SFP	GigE High Speed WIC With One SFP Slot
6	VWIC2-2MFT-T1/E1	2-Port 2 nd Gen Multiflex Trunk Voice/Wan Int. Card – T1/E1
2	CAB-AC	AC Power Cord (North America) C13, NEMA 5-15P, 2.1m
2	CAB-Console-USB	Console Cable 6ft with USB Type A and mini-B
2	ISR-CCP-CD	Cisco Config Professional on CD, CCP-Express on Router Flash
2	S29UK9-15001M Cisco	2901-2921 IOS Universal
2	PWR-2911-AC	Cisco11AC Power Supply
2	SL-29-IB-K9	IP Base License for Cisco 2901-2951
2	SL-29-SEC-K9	Security License for Cisco 2901-2951
6	CON-SNT-2911SEC	SMARTnet 8x5xNBD Cisco2911 Security

Hardware: Cisco 3560X Series Switch or approved equal

Quantity	Product	Description
3	WS-3560X-48TS-S	Catalyst 3560X 48 48 Port Data IP Base
3	C3KX-NM-1G	Catalyst 3K-X 1G Network Module Option PID
3	CAB-CONSOLE-USB	Console Cable 6 ft with USB Type A and mini-B
3	S356XVK9T-12255SE	CAT 3560 IOS UNIVERSAL WITH WEB BASED DEV MGR
3	C3KX-PWR-350WAC/2	Catalyst 3K-X 350W AC Secondary Power Supply
3	CAB-SKX-AC	AC Power Cord for Catalyst 3K-X (North America)
9	CON-SNTP-3560X 4TS	SMARTnet 8x5xNBD Service

Hardware: Optics and GLC Connectors or approved equal

Quantity	Product	Description
8	GLC-T=	1000BASE-T SFP
8	GLC-SX-MM=	GE SFP, LC connector SX transceiver

Appendix B: Hardware Requirements (Swift County-Benson Hospital & Counseling)

Hardware: Cisco 3925 Router or approved equal

Quantity	Product	Description
1	CISCO3925-SEC/K9	Cisco 3925 Security Bundle w/SEC license PAK
1	SL-39-DATA-K9	Data License for Cisco Series
1	MEM-CF-256U1GB	256MB to 1GB Compact Flash Upgrade for Cisco 3900 Series
1	HWIC-1GE-SFP	GigE High Speed WIC With One SFP Slot
2	VWIC2-2MFT-T1/E1	2-Port 2 nd Gen Multiflex Trunk Voice/Wan Int. Card – T1/E1
1	CAB-AC	AC Power Cord (North America C13, NEMA 5-15P, 2.1m
1	S39UK9-15001M	Cisco 3925-3945 IOS UNIVERSAL
1	PWR-3900-AC	Cisco 3925/3945 AC Power Supply
1	3900-FANASSY	Cisco 3925/3945 Fan Assembly (Bezel Included)
1	C3900-SPE 100/K9	Cisco Services Performace Engine 100 for Cisco 3925 ISR
1	ISR-CCP-EXP	Cisco Config Pro Express on Router Flash
1	MEM-3900-1GB-DEF	1 GB DRAM 512MB+512MB for Cisco 3925/3945 ISR (Default)
1	CAB-Console-USB	Console Cable 6ft with USB Type A and mini B
1	SL-39-IPB-K9	IP Base License for Cisco 3925/3945
1	SL-39-DEC-K9	Security License for Cisco 3900 Series
3	CON-SNTP-3925SEC	SMARTnet 8x5xNBD Cisco 3925 Security Bundle w/SEC License

Hardware: Cisco 2911 Router or approved equal

Quantity	Product	Description
1	CISCO2911-SEC/K9	Cisco 2911 Security Bundle w/SEC License PAK
1	MEM-2900-512U1GB	512MB to 1GB DRAM Upgrade (512MB+512MB) for 2901-2921
1	MEM-CF-256U512MB	256 to 512MB CF Upgrade Cisco 1900, 2900, 3900 ISR
1	HWIC-1GE-SFP	GigE High Speed WIC With One SFP Slot
3	VWIC2-2MFT-T1/E1	2-Port 2 nd Gen Multiflex Trunk Voice/Wan Int. Card – T1/E1
1	CAB-AC	AC Power Cord (North America) C13, NEMA 5-15P, 2.1m
1	CAB-Console-USB	Console Cable 6ft with USB Type A and mini-B
1	ISR-CCP-CD	Cisco Config Professional on CD, CCP-Express on Router Flash
1	S29UK9-15001M Cisco	2901-2921 IOS Universal
1	PWR-2911-AC	Cisco11AC Power Supply
1	SL-29-IB-K9	IP Base License for Cisco 2901-2951
1	SL-29-SEC-K9	Security License for Cisco 2901-2951
3	CON-SNT-2911SEC	SMARTnet 8x5xNBD Cisco2911 Security

Hardware: Cisco 3560X Series Switch or approved equal

Quantity	Product	Description
2	WS-3560X-48TS-S	Catalyst 3560X 48 48 Port Data IP Base
2	C3KX-NM-1G	Catalyst 3K-X 1G Network Module Option PID
2	CAB-CONSOLE-USB	Console Cable 6 ft with USB Type A and mini-B
2	S356XVK9T-12255SE	CAT 3560 IOS UNIVERSAL WITH WEB BASED DEV MGR
2	C3KX-PWR-350WAC/2	Catalyst 3K-X 350W AC Secondary Power Supply

2 CAB-SKX-AC AC Power Cord for Catalyst 3K-X (North America)
6 CON-SNTP-3560X 4TS SMARTnet 8x5xNBD Service

Hardware: Optics and GLC Connectors or approved equal

Quantity	Product	Description
8	GLC-T=	1000BASE-T SFP
8	GLC-SX-MM=	GE SFP, LC connector SX transceiver

Appendix B: Hardware Requirements (Union Hospital)

Hardware: Cisco 2911 Router or approved equal

Quantity	Product	Description
1	CISCO2911-SEC/K9	Cisco 2911 Security Bundle w/SEC License PAK
1	MEM-2900-512U1GB	512MB to 1GB DRAM Upgrade (512MB+512MB) for 2901-2921
1	MEM-CF-256U512MB	256 to 512MB CF Upgrade Cisco 1900, 2900, 3900 ISR
1	HWIC-1GE-SFP	GigE High Speed WIC With One SFP Slot
3	VVIC2-2MFT-T1/E1	2-Port 2 nd Gen Multiflex Trunk Voice/Wan Int. Card – T1/E1
1	CAB-AC	AC Power Cord (North America) C13, NEMA 5-15P, 2.1m
1	CAB-Console-USB	Console Cable 6ft with USB Type A and mini-B
1	ISR-CCP-CD	Cisco Config Professional on CD, CCP-Express on Router Flash
1	S29UK9-15001M Cisco	2901-2921 IOS Universal
1	PWR-2911-AC	Cisco11AC Power Supply
1	SL-29-IB-K9	IP Base License for Cisco 2901-2951
1	SL-29-SEC-K9	Security License for Cisco 2901-2951
3	CON-SNT-2911SEC	SMARTnet 8x5xNBD Cisco2911 Security

Hardware: Cisco 3560X Series Switch or approved equal

Quantity	Product	Description
1	WS-3560X-48TS-S	Catalyst 3560X 48 48 Port Data IP Base
1	C3KX-NM-1G	Catalyst 3K-X 1G Network Module Option PID
1	CAB-CONSOLE-USB	Console Cable 6 ft with USB Type A and mini-B
1	S356XVK9T-12255SE	CAT 3560 IOS UNIVERSAL WITH WEB BASED DEV MGR
1	C3KX-PWR-350WAC/2	Catalyst 3K-X 350W AC Secondary Power Supply
1	CAB-SKX-AC	AC Power Cord for Catalyst 3K-X (North America)
3	CON-SNTP-3560X 4TS	SMARTnet 8x5xNBD Service

Hardware: Optics and GLC Connectors or approved equal

Quantity	Product	Description
4	GLC-T=	1000BASE-T SFP
4	GLC-SX-MM=	GE SFP, LC connector SX transceiver

Appendix B: Hardware Requirements (United Hospital District)

Hardware: Cisco 2911 Router or approved equal

Quantity	Product	Description
1	CISCO2911-SEC/K9	Cisco 2911 Security Bundle w/SEC License PAK
1	MEM-2900-512U1GB	512MB to 1GB DRAM Upgrade (512MB+512MB) for 2901-2921
1	MEM-CF-256U512MB	256 to 512MB CF Upgrade Cisco 1900, 2900, 3900 ISR
1	HWIC-1GE-SFP	GigE High Speed WIC With One SFP Slot
3	VWIC2-2MFT-T1/E1	2-Port 2 nd Gen Multiflex Trunk Voice/Wan Int. Card – T1/E1
1	CAB-AC	AC Power Cord (North America) C13, NEMA 5-15P, 2.1m
1	CAB-Console-USB	Console Cable 6ft with USB Type A and mini-B
1	ISR-CCP-CD	Cisco Config Professional on CD, CCP-Express on Router Flash
1	S29UK9-15001M Cisco	2901-2921 IOS Universal
1	PWR-2911-AC	Cisco11AC Power Supply
1	SL-29-IB-K9	IP Base License for Cisco 2901-2951
1	SL-29-SEC-K9	Security License for Cisco 2901-2951
3	CON-SNT-2911SEC	SMARTnet 8x5xNBD Cisco2911 Security

Hardware: Cisco 3560X Series Switch or approved equal

Quantity	Product	Description
1	WS-3560X-48TS-S	Catalyst 3560X 48 48 Port Data IP Base
1	C3KX-NM-1G	Catalyst 3K-X 1G Network Module Option PID
1	CAB-CONSOLE-USB	Console Cable 6 ft with USB Type A and mini-B
1	S356XVK9T-12255SE	CAT 3560 IOS UNIVERSAL WITH WEB BASED DEV MGR
1	C3KX-PWR-350WAC/2	Catalyst 3K-X 350W AC Secondary Power Supply
1	CAB-SKX-AC	AC Power Cord for Catalyst 3K-X (North America)
3	CON-SNTP-3560X 4TS	SMARTnet 8x5xNBD Service

Hardware: Optics and GLC Connectors or approved equal

Quantity	Product	Description
4	GLC-T=	1000BASE-T SFP
4	GLC-SX-MM=	GE SFP, LC connector SX transceiver

Appendix B: Hardware Requirements (Unity Medical Center)

Hardware: Cisco 3925 Router or approved equal

Quantity	Product	Description
1	CISCO3925-SEC/K9	Cisco 3925 Security Bundle w/SEC license PAK
1	SL-39-DATA-K9	Data License for Cisco Series
1	MEM-CF-256U1GB	256MB to 1GB Compact Flash Upgrade for Cisco 3900 Series
1	HWIC-1GE-SFP	GigE High Speed WIC With One SFP Slot
2	VWIC2-2MFT-T1/E1	2-Port 2 nd Gen Multiflex Trunk Voice/Wan Int. Card – T1/E1
1	CAB-AC	AC Power Cord (North America C13, NEMA 5-15P, 2.1m
1	S39UK9-15001M	Cisco 3925-3945 IOS UNIVERSAL
1	PWR-3900-AC	Cisco 3925/3945 AC Power Supply
1	3900-FANASSY	Cisco 3925/3945 Fan Assembly (Bezel Included)
1	C3900-SPE 100/K9	Cisco Services Performace Engine 100 for Cisco 3925 ISR
1	ISR-CCP-EXP	Cisco Config Pro Express on Router Flash
1	MEM-3900-1GB-DEF	1 GB DRAM 512MB+512MB for Cisco 3925/3945 ISR (Default)
1	CAB-Console-USB	Console Cable 6ft with USB Type A and mini B
1	SL-39-IPB-K9	IP Base License for Cisco 3925/3945
1	SL-39-DEC-K9	Security License for Cisco 3900 Series
3	CON-SNTP-3925SEC	SMARTnet 8x5xNBD Cisco 3925 Security Bundle w/SEC License

Hardware: Cisco 3560X Series Switch or approved equal

Quantity	Product	Description
1	WS-3560X-48TS-S	Catalyst 3560X 48 48 Port Data IP Base
1	C3KX-NM-1G	Catalyst 3K-X 1G Network Module Option PID
1	CAB-CONSOLE-USB	Console Cable 6 ft with USB Type A and mini-B
1	S356XVK9T-12255SE	CAT 3560 IOS UNIVERSAL WITH WEB BASED DEV MGR
1	C3KX-PWR-350WAC/2	Catalyst 3K-X 350W AC Secondary Power Supply
1	CAB-SKX-AC	AC Power Cord for Catalyst 3K-X (North America)
3	CON-SNTP-3560X 4TS	SMARTnet 8x5xNBD Service

Hardware: Optics and GLC Connectors or approved equal

Quantity	Product	Description
4	GLC-T=	1000BASE-T SFP
4	GLC-SX-MM=	GE SFP, LC connector SX transceiver

Appendix B: Hardware Requirements (Western Mental Health Center)

Hardware: Cisco 3925 Router or approved equal

Quantity	Product	Description
1	CISCO3925-SEC/K9	Cisco 3925 Security Bundle w/SEC license PAK
1	SL-39-DATA-K9	Data License for Cisco Series
1	MEM-CF-256U1GB	256MB to 1GB Compact Flash Upgrade for Cisco 3900 Series
1	HWIC-1GE-SFP	GigE High Speed WIC With One SFP Slot
4	VWIC2-2MFT-T1/E1	2-Port 2 nd Gen Multiflex Trunk Voice/Wan Int. Card – T1/E1
1	CAB-AC	AC Power Cord (North America C13, NEMA 5-15P, 2.1m
1	S39UK9-15001M	Cisco 3925-3945 IOS UNIVERSAL
1	PWR-3900-AC	Cisco 3925/3945 AC Power Supply
1	3900-FANASSY	Cisco 3925/3945 Fan Assembly (Bezel Included)
1	C3900-SPE 100/K9	Cisco Services Performance Engine 100 for Cisco 3925 ISR
1	ISR-CCP-EXP	Cisco Config Pro Express on Router Flash
1	MEM-3900-1GB-DEF	1 GB DRAM 512MB+512MB for Cisco 3925/3945 ISR (Default)
1	CAB-Console-USB	Console Cable 6ft with USB Type A and mini B
1	SL-39-IPB-K9	IP Base License for Cisco 3925/3945
1	SL-39-DEC-K9	Security License for Cisco 3900 Series
3	CON-SNTP-3925SEC	SMARTnet 8x5xNBD Cisco 3925 Security Bundle w/SEC License

Hardware: Cisco 2911 Router or approved equal

Quantity	Product	Description
4	CISCO2911-SEC/K9	Cisco 2911 Security Bundle w/SEC License PAK
4	MEM-2900-512U1GB	512MB to 1GB DRAM Upgrade (512MB+512MB) for 2901-2921
4	MEM-CF-256U512MB	256 to 512MB CF Upgrade Cisco 1900, 2900, 3900 ISR
4	HWIC-1GE-SFP	GigE High Speed WIC With One SFP Slot
8	VWIC2-2MFT-T1/E1	2-Port 2 nd Gen Multiflex Trunk Voice/Wan Int. Card – T1/E1
4	CAB-AC	AC Power Cord (North America) C13, NEMA 5-15P, 2.1m
4	CAB-Console-USB	Console Cable 6ft with USB Type A and mini-B
4	ISR-CCP-CD	Cisco Config Professional on CD, CCP-Express on Router Flash
4	S29UK9-15001M Cisco	2901-2921 IOS Universal
4	PWR-2911-AC	Cisco11AC Power Supply
4	SL-29-IB-K9	IP Base License for Cisco 2901-2951
4	SL-29-SEC-K9	Security License for Cisco 2901-2951
12	CON-SNT-2911SEC	SMARTnet 8x5xNBD Cisco2911 Security

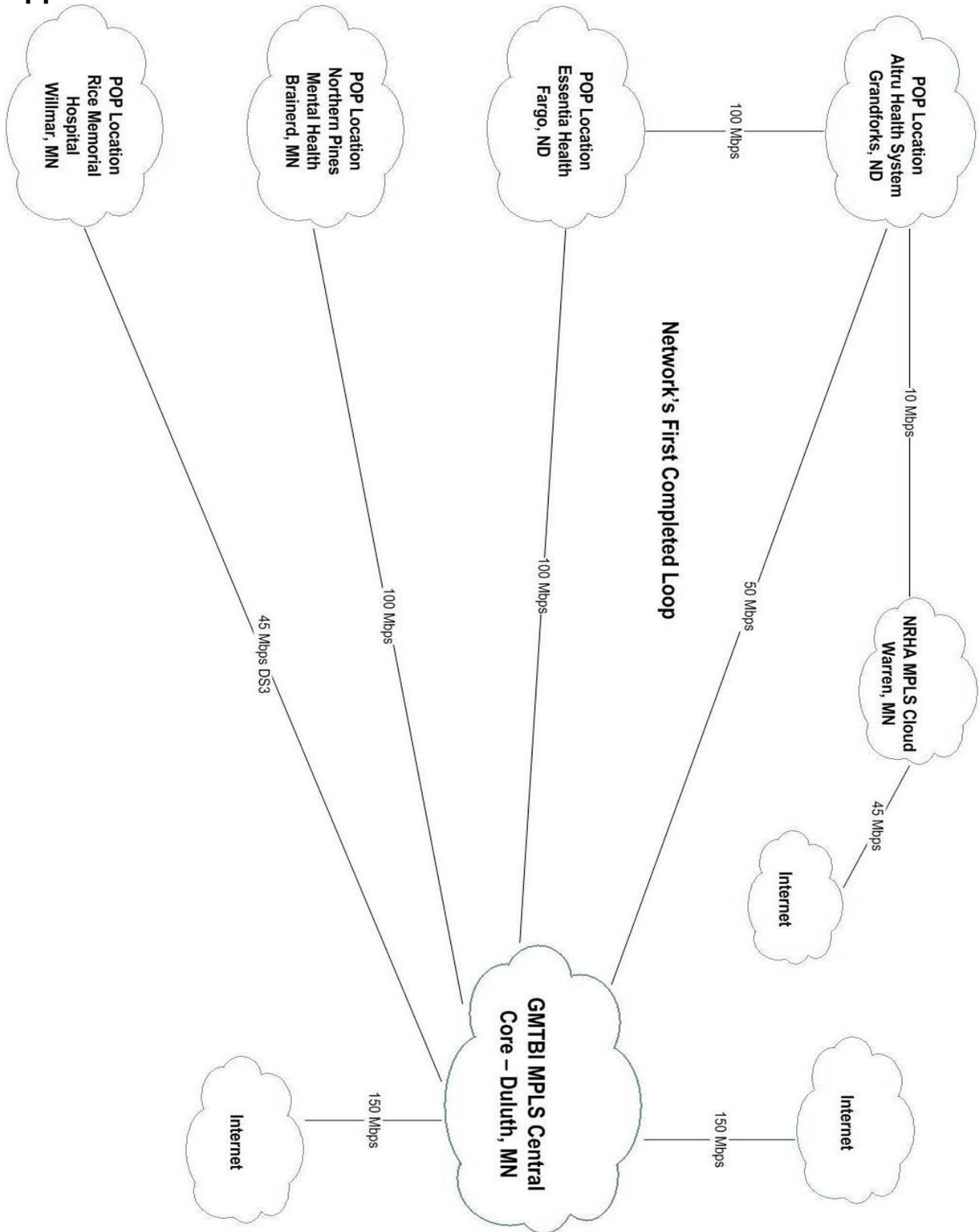
Hardware: Cisco 3560X Series Switch or approved equal

Quantity	Product	Description
5	WS-3560X-48TS-S	Catalyst 3560X 48 48 Port Data IP Base
5	C3KX-NM-1G	Catalyst 3K-X 1G Network Module Option PID
5	CAB-CONSOLE-USB	Console Cable 6 ft with USB Type A and mini-B
5	S356XVK9T-12255SE	CAT 3560 IOS UNIVERSAL WITH WEB BASED DEV MGR
5	C3KX-PWR-350WAC/2	Catalyst 3K-X 350W AC Secondary Power Supply
5	CAB-SKX-AC	AC Power Cord for Catalyst 3K-X (North America)
15	CON-SNTP-3560X 4TS	SMARTnet 8x5xNBD Service

Hardware: Optics and GLC Connectors or approved equal

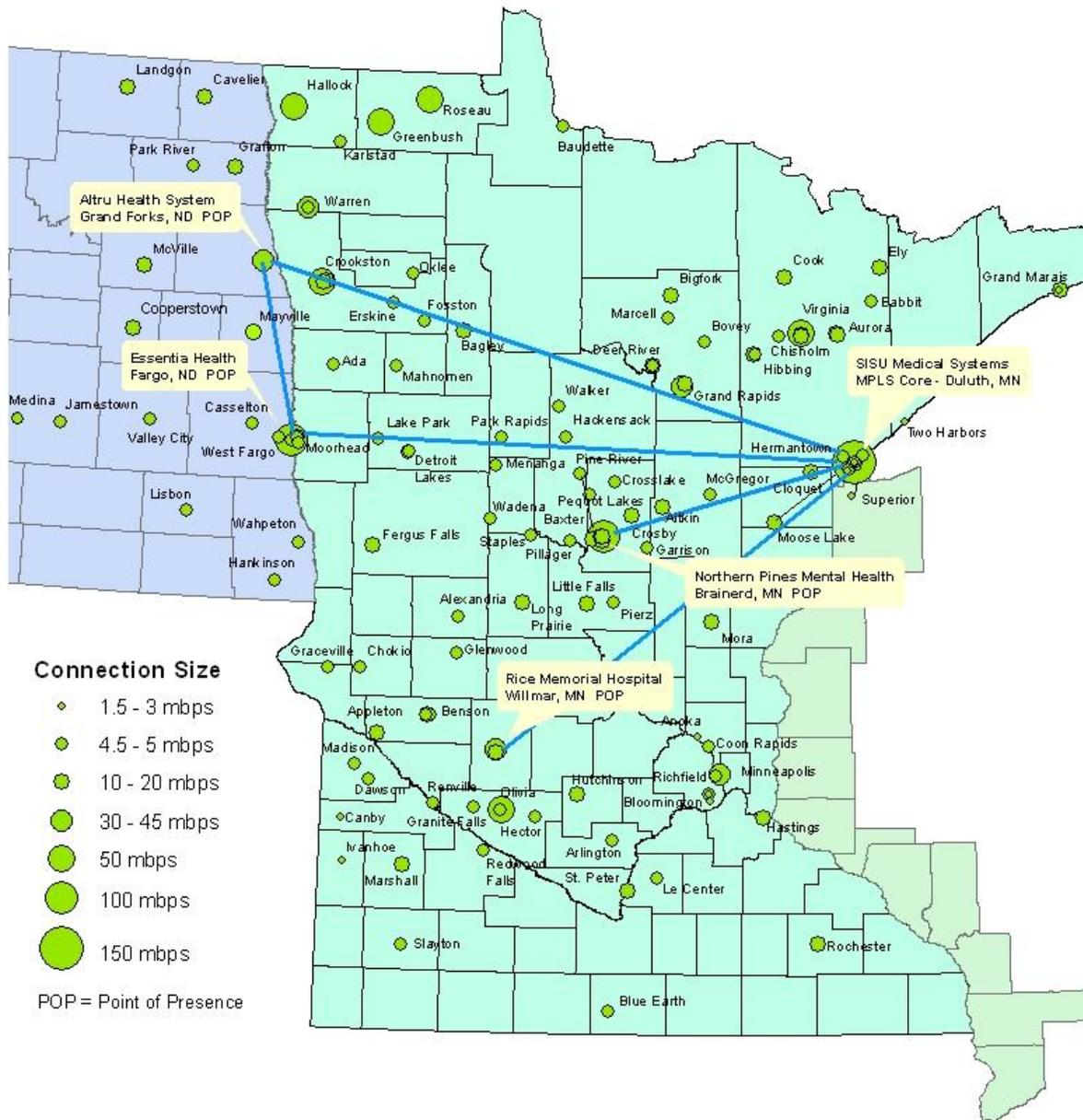
Quantity	Product	Description
10	GLC-T=	1000BASE-T SFP
10	GLC-SX-MM=	GE SFP, LC connector SX transceiver

Appendix C: Central Core to POPs – Phase 3

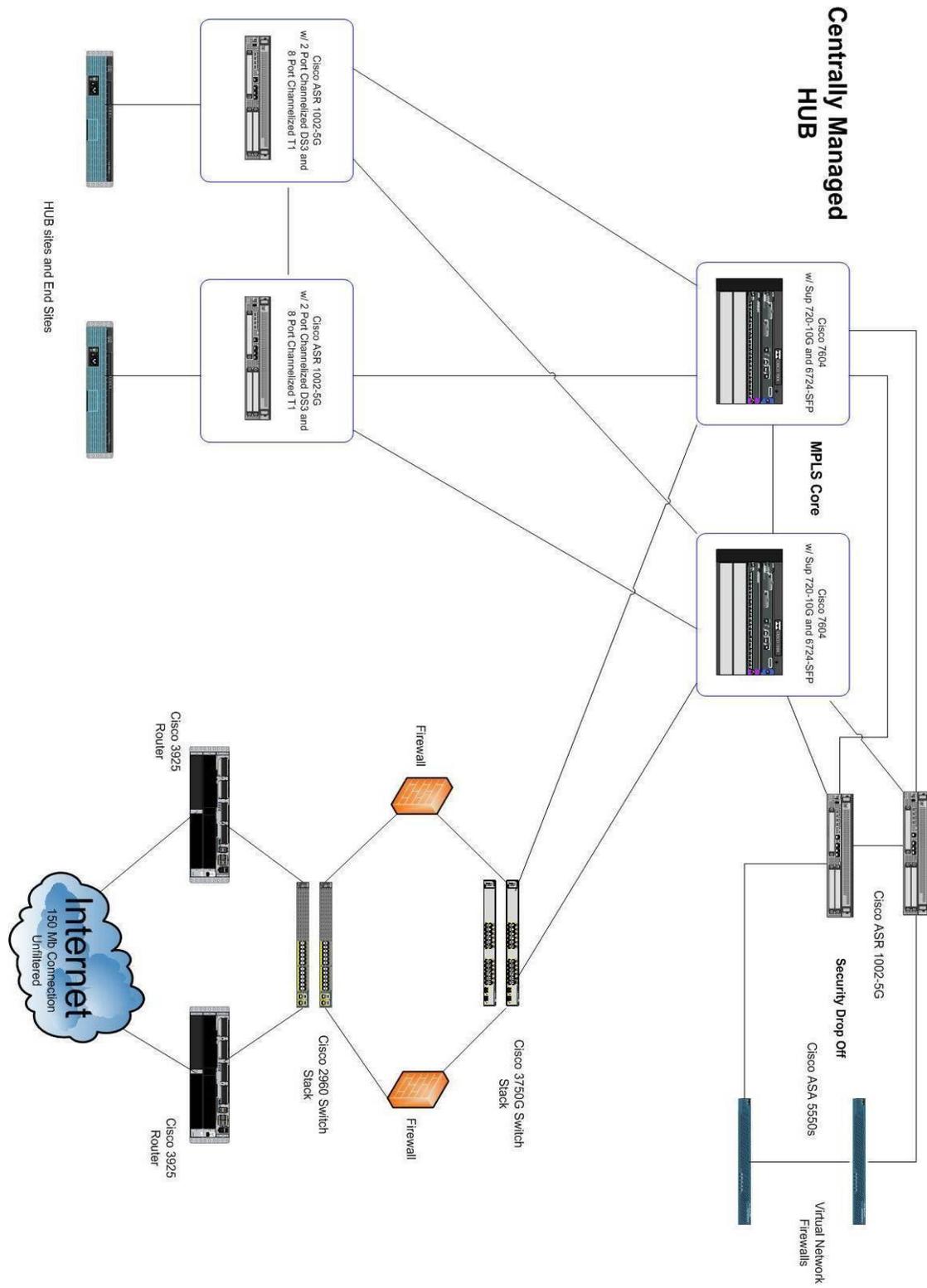


Central Core & POP Locations

Greater MN Telehealth/e-Health Broadband Network (MPLS "Cloud")



Appendix C: Central Core Hardware Layout



Appendix C: Centrally Managed Hub to Remote Hub And Sites

