

Southern Illinois Healthcare - Network Plan

1. Goals and objectives of the proposed network

Southern Illinois Healthcare (SIH) is a not-for-profit health care system headquartered in Carbondale, Illinois. Over 3,000 employees, along with physicians and volunteers work in the SIH system making it the largest employer in the region after Southern Illinois University. SIH consists of three main hospitals **Memorial Hospital of Carbondale, Herrin Hospital and St. Joseph Memorial Hospital**, over a dozen healthcare clinics and other associated healthcare facilities.

Memorial Hospital of Carbondale

Memorial Hospital of Carbondale is the flagship hospital for SIH and regional referral center for the 16 county southern Illinois region. Memorial paves the way to bring big city medicine home. Physicians in nearly 40 different specialties practice here, bringing expertise and new procedures, but successfully tailoring them to the particular needs of a rural setting.

- 140-bed tertiary care hospital.
- Southern Illinois' largest and most spacious birthing center with Level II Plus Special Care Nursery.
- Only dedicated pediatric unit in the region.
- The core hospital for SIH's comprehensive, regional heart program, Prairie Heart Institute.
- High level surgical capabilities including daVinci technology.
- Affiliated with SIU School of Medicine through its Family Practice Residency Program.
- Neuroscience program including neurosurgery and the region's only Primary Stroke Center.
- Accredited by the Commission on Cancer for comprehensive cancer treatment.

Herrin Hospital

Herrin Hospital's reputation for high quality care and attention to detail is proof that a rural facility can have huge achievements in quality. The longest-serving SIH hospital, Herrin is known for both rehabilitation and emergency services, including recognition for outstanding work responding to heart attack patients.

The hospital recently completed some major renovation and expansion projects to increase efficiency and add patient-friendly features. It includes a three-floor addition that brought outpatient services to the main floor for increased accessibility and upgraded patient accommodations to include private rooms.

- 114-bed acute inpatient and outpatient hospital.
- Newly expanded Emergency Department includes the region's first accredited Chest Pain Center.
- Nationally acclaimed acute rehabilitation offered through an alliance with the Rehabilitation Institute of Chicago.
- The area's only bariatric surgical program for weight loss.

St. Joseph Memorial Hospital

St. Joseph Memorial Hospital has served the Murphysboro community for over half a century. It is a full-service, critical access hospital. Purchased from the Sisters of the ASC Health System, St. Joseph is the only SIH facility with a Catholic affiliation. St. Joseph is an integral part of the SIH system, having evolved over time to become regional provider of specialized outpatient services.

- 25-bed critical access hospital serving the community as an inpatient facility for primary care.
- Regional Sleep Disorders Center accredited by the American Academy of Sleep Medicine.
- Area's only coordinated infusion therapy program.
- Comprehensive wound care center with hyperbaric therapy.
- Home to an outpatient geriatric counseling program.
- Area leader for outpatient endoscopic procedures.
- Part of the Prairie STAT Heart Network

Our goal is to connect all the remote sites to the hospital's information systems to provide a central source for patient information. Connecting the clinics to the hospital's network allows the clinics to access all of its resources including primary EMR applications, current and NextGen information services.

Our long range vision is to enable a set of standard telehealth connection services that will interconnect throughout the region and facilitate any healthcare location in the state to share one or more telehealth services with any other healthcare location within the region and ultimately to interconnect with other health care providers on a national basis.

This RFP addresses the telecommunications and network maintenance to interconnect the main hospital and data center and the remote hospitals and multiple clinics and doctor's offices in the area as described in the Background and Goals Section.

2. Sites that are participating in this consortium are:

HCP NO.	Site Name	HCP Address
14454	Herrin Hospital	201 South 14th Street, Herrin, Illinois 62948
14455	SIHS - Memorial Hospital of Carbondale	405 West Jackson Street, Carbondale, Illinois 62902
14456	Saint Joseph Memorial Hospital - Murphysboro	2 S. Hospital Drive, Murphysboro, Illinois 62966
16932	Logan Primary Care - West Frankfort	502 West St. Louis St., West Frankfort, Illinois 62896
18469	Miners Memorial Health Center	2553 Ken Gray Blvd, West Frankfort, Illinois 62896
18499	Southern Illinois Healthcare - Rehab Unlimited	6 East Shawnee Dr., Murphysboro, Illinois 62966
18515	Fit for Work	515 East Vienna St. Ste# 1, Anna, Illinois 62906
27667	Southern Illinois Healthcare - The Breast Center	203 Bailey Lane Benton Professional Bldg, Benton, Illinois 62812
27740	SIH - Data Center	1385 E. Main St., Carbondale, Illinois 62901

44650	Sloan Medical Clinic	7211 US Highway 45 Ste C, Carrier Mills, Illinois 62917
49688	SIH-Corporate Office Annex	509 S University Avenue, CARBONDALE, Illinois 62901
49689	Southern Illinois-System Office - Corporate Office	1239 East Main Street, Carbondale, Illinois 62902
49690	SIH Accounting Office	1745 Innovation Drive, Carbondale, Illinois 62903
49699	SIH- Primary Care Group	117 E. Clark, Harrisburg, Illinois 62946
49738	SIH Distribution Center	1 Nutrition Plaza, Carbondale, Illinois 62902
50054	SIH Office-Airport	556 N Airport Road, Murphysboro, Illinois 62966
50567	SIH- Rehab Unlimited McLeansboro	119 S Jackson Street, McLeansboro, Illinois 62859
50588	SIH Secondary Data Center	200 North Poplar, Carbondale, Illinois 62901
50777	Hunter Research Family Medicine	98 Peach Ridge Road, Anna, Illinois 62906

3. Strategy for aggregating the specific needs of health care providers (HCPs), including providers that serve rural areas, within a state or region

Most of the remote clinics are small, so providing a separate EMR application for each site would not be cost effective and would make the sharing of this information with other health care providers difficult. By sharing the hospital's resources, each clinic and remote site will have access to a much broader array of information services.

4. Strategy for leveraging existing technology to adopt the most efficient and cost-effective means of connecting those providers

The clinics already have network equipment to interconnect PCs and printers. By using high speed connections and standard network equipment, Southern Illinois Healthcare will be able to connect the PCs and printers in the remote offices to the hospital's existing network. This will allow access to servers and applications in the hospital as well as cloud-based applications available on the internet. The hospital already has an extensive network of leased facilities, which interconnect connects the Hospital and remote clinics.

5. Discussion of how the broadband services will be used to improve or provide health care delivery

The hospital and clinics have direct access to the internet for cloud-based services and dedicated access for such services as radiology and patient records. The Data Center is located just a couple miles from the Southern Illinois Healthcare main hospital campus in Carbondale. Remote locations are connected using mostly a combination of ISDN PRIs and high-speed Ethernet internet connections. This network

will support applications such as:

- Interactive video conferencing and telemedicine.
- Streaming video for distance learning and continuing education.
- Enabling medical record queries from multiple sources.
- Transmission and receipt of imaging files.
- Web-based collaboration tools for meetings and peer-to-peer consultation and interaction and for hospital administration.
- Access to internet-based resources for staff and patient education.

The hospitals and all clinics and locations will benefit from these high-speed connections. Facilities will be upgraded and expanded, as needed for growth and new services beyond what's mentioned above.

6. Discussion of previous experience in developing and managing health IT (including telemedicine) programs

Nathan Phoenix is the ITS Director of Technology/Information Security Officer and Consortium Leader who will oversee this project

7. A project management plan outlining the project's leadership and management structure (a work plan, schedule, and budget)

- Nathan Phoenix the ITS Director of Technology/Information Security Officer, will be the project Manager.
- Schedule:
 - Bid process to last 28 days with earliest contract selection date on the 29th day
 - Implementation of service is expected to take place within 60 days of the Allowable Contract Selection Date
- Budget:
 - Telecommunication Services - Annual Cost ~\$400,000.
 - 65% of these costs will be covered under the Healthcare Connect Fund, while the remaining balance will be paid out of the hospital's income.