SOLUTION
DARK FIBER
ETHERNET/IP
COLOCATION

CLIENT
UCHEALTH

INDUSTRY
HEALTHCARE

Tomorrow's Healthcare Solutions. Today.

Zayo and UCHealth partner to support new technologies and future plans for growth.

MOVING FROM "HEALTHCARE" TO "HEALTH"

As the healthcare industry is moving from a treatment-based model to a preventative, value-based one, more hospital networks are implementing new technologies to collaborate, diagnose and work toward more effective, patient-centered outcomes. An industry leader in Colorado, UCHealth is at the front lines of this movement. They chose Zayo to enable the deployment of their new technologies, and enable the health system to scale, securely.

> **"Zayo's capabilities are fully aligned with our mission to improve health through innovation. Patients in all areas of Colorado will benefit from our increasingly wired hospital system."**
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> **STEVE HESS**
> CIO AT UCHEALTH

Their challenges include:

Growth

UCHealth has long-term plans to grow both through affiliate partnerships and the construction of new facilities. As their footprint increases, their bandwidth and security needs will rise exponentially to meet patient and workforce demands.

Digitization

The healthcare landscape is increasingly digital, including the use of new high-definition imaging & video, telehealth, EMR, lab systems and revenue cycle management. These are bandwidth intensive and require a high-performance environment, which UCHealth needs to stay competitive.

Security, latency and reliability

Healthcare organizations manage life-saving data that needs to be accessed when time is of the essence. This information must be stored securely and transferred quickly.

EXECUTIVE SUMMARY

Zayo worked with UCHealth, a top rated Colorado health system, to provide comprehensive network and infrastructure services that will enable the implementation of next-generation healthcare technologies. UCHealth needed a "future-proof" network that allows them to meet the challenges of an increasingly digital healthcare landscape, which is changing rapidly through both consolidation and organizational growth. The network infrastructure will support life-critical data, meeting maximum privacy, security, reliability, and low latency requirements for the health system.

The solution included:

- Long haul and metro dark fiber to infinitely scale bandwidth as networks consolidate and enable services like high-definition video to provide better, leading-edge patient care
- Ethernet/IP that includes a completely privatized WAN for best-in-class staff and patient communication as well as data transfer
- Highly-secure colocation services for low latency and redundancy on all EMR and ERP systems

"Zayo is the optimal provider to meet UCHealth's needs for high-performance, private, secure connectivity and infrastructure. Our network is expected to provide 40 times the bandwidth of UCHealth's current network, enabling advanced services, including video and imaging transfer."

DENNIS KYLE
SVP OF STRATEGIC MARKET S AND ALLIANCES ZAYO

ZAYO'S PURPOSE-BUILT SOLUTION

Together, in collaboration with the experts at UCHealth, Zayo developed an infinitely scalable solution that positioned the health system with flexibility for growth and digital advancement.

It included:

Dark Fiber: A dark fiber ring expands the hospital's bandwidth by over 40 times. This ring connects the hospital to its key datacenters across the Front Range, and enables the successful deployment of their comprehensive EMR platform.

Ethernet: With a new, completely private WAN infrastructure, designed and implemented by Zayo, UCHealth can now deploy the most technologically advanced delivery of health care, including real-time HD medicine and telehealth services. It also increases the capacity to send, retrieve, and store massive amounts of medical imagery quickly and easily.

Colocation: Moving UCHealth's servers to one of Zayo's top tier data centers means that the hospital now has additional capacity onsite for patient care. Localized colocation provides a highly secure environment for UCHealth's main EMR platform, with low latency for instantaneous replication.

FUTUREPROOF FOR FUTURE RESULTS

With Zayo's dark fiber backbone, customized WAN and premium colocation services, UCHealth is able to scale and compete for the long term. Through the Zayo partnership, UCHealth can incorporate new technologies for mobile health, lab systems, revenue cycle management, and so much more. Finally, it is now positioned to address the specific SLAs required to deploy new instances of their EMR platform.

The landscape of healthcare is changing faster than many organizations can keep up. UCHealth has made the commitment to adapt quickly, today and tomorrow. Their patients deserve nothing less.

FOR MORE ON ZAYO'S HEALTHCARE SOLUTIONS
VISIT ZAYO.COM/HEALTHCARE