HIPAA COMPLIANCE

Welbeck solutions for fast and secure transfer of PHI

WELBECK SOLVES THE CHALLENGES OF ACCESS TO CENTRALIZED EHR

Welbeck Healthcare Examples: Below are just some examples of existing healthcare applications using Welbeck.

Physician Practices and Clinics: Low cost connections back to hospital EHR with full encryption of data in motion.

Medical Imaging Clinics: Encrypted transport of large imaging files including MRIs, CT Scans and digitized X-Rays.

Multisite Rehab Clinics: Wired and wireless mesh network with full failover and AES 256 encryption of data in motion.

Hospital M2M Monitoring: Secure and reliable TLS v1.2 remote management and monitoring of equipment installed at hospitals.

Medical Payments Processors: Multisite mesh networking of data centers with failover redundancy and AES 256 encryption.

Welbeck solves the conflict between centralizing Electronic Health Records (HER) and providing **fast, secure and cost-effective access to EHR**. Other alternatives have been tried and failed. Leased lines are too expensive and limited capacity. Open Internet is too insecure. The answer is Welbeck's encrypted tunnels over low-cost Internet.

You need encryption for HIPAA compliance. But other encryption solutions use up bandwidth for "encryption overheads". This adds cost because you are have to pay for the extra bandwidth. It also adds latency that slows down or even prevents the effective transfer of needed data.

Welbeck encrypts data in motion without these problems. We provide a reliable, cost-effective method to transmit Protected Health Information (PHI) between the healthcare provider and the EHR database that provides both security and fast access.

Advanced encryption without excess latency or dropped sessions

Welbeck uses the advanced TLS v1.2 protocol and AES 256 encryption. FIPS 140-2 compliant versions are available – this is the federal Government's own standard for encryption of sensitive information.

Our devices are easy to use – plug and play at the physician practice, clinic or hospital. All records, databases and applications are made available to physicians and other healthcare professionals over our encrypted connections.

There is no need for expensive leased lines (like MPLS, T-1s or dedicated fiber) - just use available Internet for **cost savings of more than 50%** compared to leased lines, plus higher capacity. This means more healthcare dollars can go to providing healthcare. The payback period is less than 12 months on the cost of implementation. The connection is fully encrypted and private for compliance and peace of mind.

WELBECK SECURE

Welbeck provides better security at lower cost

Glossary

Encryption: Encoding information so that only authorized parties can read it; required for PHI data in motion.

Failover: Switch to a second "redundant" system or connection in the event that the first "primary" system or connection fails.

M2M: Machine-to-machine automated computer communications without human intervention.

Mesh Network: A network in which each node can communicate with all other nodes – not just to a central site.

MPLS: A technique to label data packets for forwarding over telecommunications carriers' networks (e.g. T-1 leased lines). Welbeck achieves similar results over the Internet.

Compliance with HIPAA requires the protection of sensitive patient information (PHI). This includes the protection of "data in motion" such as transmissions over the Internet and generally requires that such data must be encrypted. This is a particular problem for EHR that often involve very large files (think MRIs, CT Scans and digitized X-Rays and pathology images) or applications that do not work well over the wide area network (WAN - think dictation apps and patient databases).

T-1s & MPLS Leased lines	VS	Welbeck over Internet
$1,000 per month		$300 per month
No encryption		AES 256 encryption
Low capacity		High capacity
Complex to install.		Plug and play.

Some healthcare providers and EHR vendors have tried to use leased lines to connect physicians to the EHR database. Leased lines are very expensive and are priced by distance – so rural practices have to pay more to access the data center. Leased lines also offer only limited capacity: a T-1 leased line is only 1.5 Mbps. By comparison, your cell phone and your home Internet provide much higher capacity, probably 25 to 35 Mbps.

Moreover, although ***leased lines*** may be private, they ***are not secure***: the data running over leased lines is ***not encrypted***.

With Welbeck, you can use low-cost commodity Internet connections from any ISP, or even 3G/4G cellular. Welbeck will provide advanced encryption, create a private network over the Internet, and will open and maintain a clean pipe end-to-end that will carry large files and proprietary applications without interruption.

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