

Data Sheet

Healthcare Cloud

Enterprise-class Cloud Services for Healthcare

Virtustream Healthcare Cloud, which runs on Virtustream Enterprise Cloud, enables healthcare providers to modernize their health IT environments in a HIPAA/HITECH-compliant cloud purpose-built for mission-critical enterprise applications. It includes pay-as-you-go pricing and full flexibility to scale-up and scale-down. This enables enterprises to improve their quality of care, empower patients to take control of their health, and reduce the cost of operations.

Virtustream Healthcare Cloud includes enterprise-class infrastructure availability guarantees of up to 99.999% and options for data geo-fencing, to give healthcare providers a proven, secure platform for patient records while meeting regional data residency requirements for protected health information (PHI). The service includes all the advantages of Virtustream Enterprise Cloud, which is engineered to support the full breadth of digital health solutions, including systems of records like electronic health record (EHR) systems and enterprise resource planning (ERP). Additionally, Virtustream Healthcare Cloud supports patient engagement, precision health platforms, workforce management, collaboration and nearly any IT system.

By leveraging Virtustream Healthcare Cloud, healthcare decision makers can modernize their health IT infrastructure without a significant up-front investment in new hardware, software or infrastructure services. With the support of hybrid deployment models, this offering enables modernization strategies that balance speed to value while fully utilizing legacy investments and existing operational models. Virtustream's advanced security services and defense in depth framework ensure end-to-end protection against the ever-present risks associated with increasing

cybersecurity pressures. By engaging Virtustream Healthcare Cloud, healthcare providers have the option to implement a 24/7 white-glove managed service, which is critical to keeping healthcare IT systems running around the clock while reducing costs

Healthcare's Digital Transformation

Healthcare IT is rapidly embracing digital transformation, expanding their use of EHRs, improving patient engagement, and connecting EHRs with new precision health platforms. Cloud adoption for health IT is accelerating in support of this digital transformation. Global healthcare cloud spending on services and products is expected to reach an estimated \$12.6 billion in 2020, growing at an average annual rate of 20.1%¹.

Healthcare providers can expedite their digital transformation by embracing Virtustream Healthcare Cloud. By off-loading portions of their existing IT environment to Virtustream, hospitals can maintain in-house infrastructure for necessary on-premises areas while running digital health solutions and applications in the cloud on a high scale, economical, enterprise-class infrastructure platform.

Security and Compliance in the Cloud

One of the primary responsibilities of healthcare providers today is maintaining the security of PHI. Strict security mandates that require regulatory frameworks like the Health Insurance Portability and Accountability Act (HIPAA) and Health Information Technology for Economic and Clinical Health Act (HITECH) are in place to safeguard PHI, which is viewed as up to 10 times more valuable than other forms of personal information when sold on the black market. When evaluating the use of an off-premises or hybrid cloud, the ability to protect PHI and meet the regulatory requirements must remain a top consideration of a cloud provider.

Virtustream Healthcare Cloud follows strict guidelines and protocols when it comes to data protection for PHI and non-PHI data, providing the technologies, processes and expertise that guarantees a healthcare provider's protected health information remains secure.

Virtustream Healthcare Cloud delivers:

- A multi-dimensional, end-to-end strategy to protect patient data, including data protection, threat detection, identity access controls and security information and event management (SIEM).



- A dedicated team focused on end-to-end security to enable large-scale, highly compliant, highly automated systems.
- Strict adherence to the requirements necessary to support compliance with HIPAA and HITECH
- Role-based access controls, multi-factor authentication, data encryption at rest and in motion, multiple levels of threat detection, and a myriad of other advanced security options.



Hybrid Deployments of Virtustream Healthcare Cloud

Hybrid architectures for mission-critical, highly connected environments are the most common deployment model, enabling healthcare providers to connect legacy on-premises environments with the off-premises cloud-based services securely and economically.

By engaging Virtustream Healthcare Cloud, healthcare providers use the same multiprotocol label switching (MPLS), point-to-point or VPN network architectures in use today, extending them to Virtustream Healthcare Cloud. Virtustream experts work with organizations to develop a deep understanding of the unique application interdependencies of a given environment, such as which applications need to be in the same location and which can tolerate expected latency.

Virtustream and its healthcare customers work together to create a migration strategy that delivers a smooth transition to the cloud while receiving the highest time-to-value for their investment. This time-to-value can be seen through lower startup costs, non-disruptive

upgrades and non-impactful redeployments of infrastructure resources and pay-for-use models during the implementation phase. Along with these advantages, healthcare providers gain the flexibility to scale-up resources during intensive development and scale-down when that development ends.

When moving any part of the healthcare IT landscape to a cloud environment, Virtustream and the customer pay close attention to the management of the interfaces that keep data flowing smoothly between separate systems

Enterprise-class Services with True Consumption Economics

Built with redundancy and business continuity by design, Virtustream Healthcare Cloud can deliver an infrastructure availability SLA of up to 99.999%, which is less than 6 minutes of unplanned downtime per year.

Only Virtustream offers true consumption economics. By using patented Virtustream MicroVM™ technology, Virtustream Enterprise Cloud provides a single, unified metric known as the MicroVM for IT organizations to measure their usage of cloud resources, allowing healthcare providers to only pay for the resources actually consumed, unlike the typical t-shirt sized utility billing from the general purpose public cloud providers. The MicroVM enables healthcare customers to shift from capital expenditures to operational expenditures while delivering market-leading performance SLAs.

For healthcare customers pursuing digital transformation and IT modernization across their health IT landscape, Virtustream Healthcare Cloud provides the speed for deployment, scalability and economics, all within a highly secure, industry compliant cloud.

Contact

For more information about Virtustream Healthcare Cloud, please contact us at info@virtustream.com or visit us at www.virtustream.com.

1 Persistence Market Research. "Global Market Study on Healthcare Cloud Computing: Hybrid Clouds to Witness Highest Growth by 2020." 2015.



Virtustream Healthcare Cloud

Features

End-to-end security to enable large-scale, highly-compliant, highly-automated systems

Unique MicroVM technology, enabling true consumption-based pricing that reduces inefficiencies and creates significant cost savings

Strict guidelines and protocols for data protection, providing guarantees to secure protected health information

Shorter time-to-value through rapid deployment, lower startup costs, non-disruptive upgrades and non-impactful redeployments

Ability to support the breadth and depth of robust health IT environments

Options for 24/7 white-glove service, keeping healthcare IT systems running around the clock while reducing costs

About Virtustream

Virtustream, a Dell Technologies Business, is the enterprise-class cloud service and software provider trusted by enterprises worldwide to migrate and run their mission-critical applications in the cloud. For enterprises, service providers and government agencies, Virtustream's xStream® Management Platform and Infrastructure-as-a-Service (IaaS) meets the security, compliance, performance, efficiency and consumption-based billing requirements of complex production applications in the cloud - whether private, public or hybrid.

