Overview

Healthcare IT is undergoing a historical transformation when it comes to improving the cost, quality and delivery of patient care. What clinicians realize is that access to the right data at the right time leads to evermore-successful business practices. Medical practitioners that can quickly access and process medical record information at the time of service deliver a higher level of patient care. In fact, many healthcare providers strive to have a completely connected and collaborative care environment whereby patients have real-time, secure access to their health records; physicians and nurses have clinical applications at their fingertips; and payer interactions are seamless.

Sphere 3D’s Glassware 2.0™ is designed to address the needs of mid-to-large scale hospital systems. It empowers healthcare IT professionals to easily and cost-effectively deliver software applications to clinicians on a broad array of portable and stationary devices, via a containerized approach, to better support personalized delivery of patient care objectives in a variety of clinical settings. Sphere 3D is helping transform healthcare IT with trusted solutions that improve the cost, quality and delivery of patient care while modernizing and extending existing IT investments.

Key Highlights

- Mobilize clinical applications on any device
- Reduce IT support and help desk costs
- Eliminate end point security risks
- Rapidly deploy through an on premise or virtual appliance
- Expand enterprise wide through hybrid cloud

Current Challenges for Healthcare IT Leaders

In addition to traditional business requirements, healthcare IT professionals are faced with many complex regulatory and technology deployment challenges:

- **Regulations**: There are many new regulatory requirements due to the American Recovery and Reinvestment Act of 2009 (ARRA), which provides incentives for the adoption of EHR technology, CPOE and health information exchanges (HIE).
- **Highly Graphical Applications**: To properly diagnose patients, Doctors need access to highly-graphical PACS (Picture Archiving and Communication System) applications to view medical images including x-rays, CT, and MRI scans.
- **Mobility**: Medical professionals must be able to deliver clinical services on a variety of devices – including thin clients, laptops, tablets and some healthcare-specific devices. Doctors often move extensively within hospitals and clinics, including on and off-campus locations.
- **Security**: Whether accessing critical information from an iPad while moving between patient rooms or from home at 2:00 a.m. during an emergency, secure access to all patient data is required in order to comply with HIPAA regulations.
- **Intuitiveness**: Healthcare professionals are focused on patients and often don’t have the luxury of time to learn new technologies. They require tools that are intuitive and easy to use.

Sphere 3D’s Solution for Mobilizing Healthcare Applications

Sphere 3D’s application containerization powered by our Glassware 2.0™ is designed to help healthcare IT professionals solve complex regulatory and technology deployment challenges. The Glassware 2.0 containerization technology does not require the full desktop OS to run on the server. Instead, containers provide abstraction from the underlying desktop OS and thus allow clinical applications to be seamlessly and securely mobilized to almost all endpoint devices (Chromebook, iPad, Android tablet, Windows PC or iOS) without any code changes. This proprietary technology delivers up to 5x the performance of traditional workspace virtualization systems, which is an especially important benefit when using highly-graphical medical imaging applications.

The Sphere 3D application containerization solution for healthcare is available today as an all-in-one hyperconverged infrastructure appliance, the G-Series GW2000, or as a service from within the Microsoft Azure cloud, the G-Series Cloud, or as an end-to-end globally distributed enterprise solution, Exosphere. Sphere 3D is the must have solution for optimizing healthcare IT. With it, hospital systems and medical professionals can deliver enhanced patient care experiences from anywhere, anytime and on any device.

“*We envisioned our NovaGlass as a solution that would give users access to a full range of radiology imaging information (PACS, RIS, cardiology, orthopedic and mammography systems) from a broad set of computing devices. By leveraging Sphere 3D’s Glassware, we have accomplished this goal. NovaGlass now enhances clinical workflows and increases our ability to positively impact patient experiences.*”

- Tim Law, President, Novarad.

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Features and Benefits

- **Reduce TCO by 75%** - The break-through density of the Sphere 3D containerization architecture is both cost-effective and highly scalable and opens up the business case for mobilization of any application. Healthcare IT can lower clinicians’ workspace computing costs through reduced new application development and infrastructure as well as streamline administration and support compared to traditional application virtualization approaches.

- **Fast and Efficient Implementation** - The Sphere 3D solution easily containerizes applications in minutes using an intuitive wizard-based orchestrator that does not require specialized virtualization, app development skills or additional infrastructure investment as is the case with virtual desktop infrastructure (VDI) systems.

- **Extend Useful Life of Applications** - Glassware 2.0 containerizes even the most graphic-intensive medical applications so underlying operating system dependencies can be avoided. This enables both new and legacy applications to be deployed natively without the need to display the OS on new or old devices – Chromebook, iPad, Android tablet, Windows PC or iOS.

- **Reduce Malware Attack Surface** - Because Sphere 3D’s Glassware 2.0 containerization does not run the desktop operating system, it also contributes to improved security by reducing the potential attack surface that malware might attempt to exploit – malware written to attack explorer.exe for example, is powerless on a server that does not run explorer.exe.

The combination of Glassware Connect, the G-Series appliances and Exosphere powered by the easy to use Glassware 2.0 containerization technology is a game changer when it comes to mobilizing current and legacy healthcare applications.

**G-Series GW2000 Appliance**
- Industry’s first application containerization appliance, powered by Glassware 2.0
- Simple, drop-in hyperconverged appliance: no additional infrastructure required
- Containerize Windows apps in minute for hundreds of concurrent users sessions
- Deliver apps to any end-user computing device without application downloads

**G-Series Cloud on Microsoft Azure**
- Virtual application containerization solution, powered by Glassware 2.0
- Cloud version of G-Series, Scales to 100s of users per VM
- Two pricing models for virtual appliance on Azure:
  - Pay per use through Microsoft Azure Marketplace
  - Subscription model through an enterprise license from Sphere 3D

**Exosphere**
- Network aware application delivery in the globally distributed enterprise
- Designed for a hyperscaled hybrid-cloud infrastructure
- On-demand app containerization in Microsoft Azure Cloud or in conjunction with offsite bare metal servers
- Scales to hundreds of thousands of users and beyond
- Solution delivery engagement with Sphere 3D professional services is required

**Glassware Connect**
- End-point device client for Chromebook and iOS - available on respective market places
- No virtual desktop required
- Full native application functionality from a mobile device, without sacrificing features
- Utilize all local device features, including touch screen, voice command (e.g. Siri), etc.
- Keep data secure - nothing is stored on device

Find out more
To learn more about how Sphere3D can help you mobilize your healthcare applications visit, http://sphere3d.com/healthcare-industry/.

Sales Offices
Sales and support for Sphere 3D products and solutions are available in over 90 countries. Contact us today at sales@sphere3d.com.