

# Sphere 3D Application Containerization

Improve end user productivity by simplifying business application delivery to any mobile or desktop device

## Overview

To maximize business productivity we've grown accustomed to using our mobile devices for many activities such as email or surfing the web. However, given the diversity of mobile devices available today, especially smart phones and tablets, it's particularly challenging and inefficient for IT teams to rewrite the multitude of business applications for native mobile platforms.

Sphere 3D solves these challenges with application containerization powered by our Glassware 2.0™ technology. Containerization offers a new approach to securely delivering existing business applications to any mobile or desktop device without any underlying operating system dependencies or complex source code changes. The solution scales from our turnkey G-Series GW2000 appliance, our G-Series Cloud virtual appliance for Microsoft Azure to our Exosphere solution designed for a globally distributed and scalable enterprise.

## Key Highlights

- Mobilize your workforce on any device
- Containerize current and legacy business applications
- 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



Sphere 3D's solutions for the delivery of any application on any device on any cloud

*Working with Sphere 3D has enabled us to offer our school districts a cost-effective solution for delivering digital learning applications across any device platform, including Google Chromebooks, iPads, and other mobile devices."*

Melissa McClatchy  
Coordinator of Technology Integration for Region 6 ESC

## The Challenge

Today, your employees, contractors and partners demand to use their own devices, loaded with a combination of personal productivity and enterprise applications. For IT administrators responsible for workspace management, this presents many challenges for application delivery, interoperability and security across an unlimited matrix of hardware, operating systems, browsers and applications.

Application development on native device operating systems is not practical because of multiple mobile platforms to support and continual development of new devices. Server-based solutions for client application delivery that rely on technologies such as Microsoft Remote Desktop Services (RDS) are inefficient, requiring a full desktop environment per application session. Virtual Desktop Infrastructure (VDI) solutions also require many infrastructure components, and with that comes the dependency for extensive planning, design, engineering, testing and of course investment, before they can be deployed.

## The Sphere 3D Solution for Modern Application Delivery

Sphere 3D solves these challenge with application containerization powered by our Glassware 2.0™ technology that securely delivers existing business applications to any mobile or desktop device — Chromebook, iPad, Android tablet, Windows PC or iOS. 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 allowing applications to be seamlessly and securely delivered to almost all endpoint devices without any code changes. This proprietary technology allows for a Glassware 2.0 server to deliver up to 5x the performance of a Remote Desktop Service (RDS) based solution.

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 changing the game when it comes to improving end user productivity by enabling IT teams to rethink how they provide their employees immediate access to information from anywhere, anytime and on any device.

## Common Uses for Glassware 2.0

Whether it is an enterprise IT team looking to modernize their current or older line of business applications, or a software vendor considering to offer a software-as-a-service business model, the "written once run everywhere" approach afforded with Glassware 2.0 takes away the risk and costs of application mobility and migration. Glassware 2.0 solutions are applicable to a number of different application delivery scenarios:

- **Business productivity applications** - Business productivity applications - Sphere 3D has pre-verified many packaged business applications so they can be delivered with full native functionality to any device, and we offer Professional Services for any applications which are not pre-verified.
- **Custom line-of-business applications** - Customized LOB applications can be easily virtualized to support a BYOD initiative since Glassware 2.0 containers provide broad device compatibility and eliminate the high cost of refactoring applications.
- **Legacy applications and browsers** - By providing many generations of application and browser backward compatibility, Glassware 2.0 can extend the life of legacy applications. Significant application performance enhancements also enable the use of older less powerful mobile devices.

## Features and Benefits

- **Reduce TCO by 75%** - The breakthrough density of the Sphere 3D containerization architecture is both cost-effective and highly scalable and opens up the business case for mobilization of any business application. IT teams can lower end-user 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 or 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 business applications so they are longer tied to the underlying operating system dependencies. This enables both new and legacy business applications to be deployed to almost any device – Chromebook, iPad, Android tablet, Windows PC or iOS and without displaying the native OS.
- **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 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
- Successfully deployed in education and healthcare vertical

### 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 - can be downloaded on respective marketplaces
- 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 Sphere 3D application containerization can help improve the productivity of your end users by virtualizing and mobilizing their applications, visit [sphere3d.com](http://sphere3d.com).

## Sales Offices

Sales and support for Sphere 3D products and solutions are available in over 90 countries. Contact us today at [sales@sphere3d.com](mailto:sales@sphere3d.com).

### Americas

125 S. Market Street  
San Jose, CA 95113  
USA  
Tel: 1 858 571 5555

### Asia Pacific

16 Collyer Quay  
Level 1  
Singapore, 049318  
Tel: +65 6818 9266

### France

18 Rue Jean Rostand  
Orsay  
91400, France  
Tel: +33 (0) 1 81 91 73 40

### Germany

Feldstraße 81  
44141 Dortmund  
Germany  
Tel: +49 231 5436 0

### Japan

Dai 6 Ito Bldg 5F  
4-4-7 Ebisu  
Shibuya-ku  
Tokyo 150-0013 Japan  
Tel: +81 3 5475 2140

### United Kingdom

Regus Atlantic House  
Imperial Way  
Reading, RG2 0TD  
United Kingdom  
Tel: +44 1 189 898 000



©2015 Sphere 3D. All trademarks and registered trademarks are the property of their respective owners. The information contained herein is subject to change without notice and is provided "as is" without warranty of any kind. Sphere 3D shall not be liable for technical or editorial errors or omissions contained herein.

SB\_nov232015