

# SMMA

**SMMA** has designed award-winning places to connect, discover, learn, innovate, and achieve since 1955. As one of the country's leading architectural firms, SMMA balances engineering, interiors, and site design to afford clients the agility of a single source of creative and technical expertise. A shared pursuit of design excellence and social responsibility guides their practice. Recent awards include the IIDA New England Design Award for SMMA's work on the Waters Corporations **IMMERSE** Innovation and Research Lab.

# CLIENT SUCCESS STORY

**SMMA**

SMMA improves workflows and design efficiency while reducing management costs with **INFINITY Workspaces**

(POWERED BY **NVIDIA RTX** Virtual Workstation technology)



## Reasons for INFINITY Workspaces

- Access **high-level GPU performance** for Enscape & other CAD applications from anywhere on any device.
- Improved performance for Windows 10 & office productivity applications.
- Automatic upgrades & easy maintenance.
- Mitigate lost productivity time resolving IT issues.
- Optimize workflows with unmetered bandwidth for real-time remote file access, editing, and collaboration.
- All-in-One turnkey solution for a predictable monthly fee.

## Summary

- SMMA is a leader in architectural design and construction.
- The AEC firm replaced CAD workstations with **IronOrbit's GPU-Accelerated INFINITY Workspaces.**
- The cloud environment reduces the costs of hardware and democratizes existing systems in a hybrid workplace.
- Today, architects, engineers, mechanics, and designers have access to all modern graphics-intensive applications, **including Revit, Sketch-Up, Enscape 3D, and 3D Studio Max.**

## The Challenge

Most virtual workstation solutions failed to provide the application performance needed to ensure smooth and productive workflows. IT leadership needed to provide a solution to accommodate graphics-intensive applications' heavy data and rendering demands.



## The Solution

**IronOrbit delivered their GPU-Accelerated INFINITY Workspaces, powered by NVIDIA RTX Virtual Workstation technology with NVIDIA A40 GPUs, to resolve the problem. INFINITY Workspaces empower SMMA teams to be Scalable, Collaborative, and Highly Productive in a Cloud Environment.**

IronOrbit's **INFINITY Workspaces** deliver SMMA designers and engineers secure and reliable access to 2D and 3D models from any location on any device. Architects can view design changes in real-time, and stakeholders can render realistic models to make confident decisions. Remote project teams are able to work effectively with the capacity and speed from IronOrbit's secure data centers.

**INFINITY Titanium Workspaces** regularly ingest Revit models and Enscape files ranging from 500MB to 1000MB. Enscape load times are equivalent to local, high-end GPU workstations. IronOrbit delivers a stable, all-in-one solution for optimal performance and output.

## NVIDIA RTX Technology

**NVIDIA RTX Virtual Workstations** benefit from all of the enhancements of NVIDIA RTX technology, including real-time ray tracing, artificial intelligence, rasterization and simulation.

With RTX technology, artists realize the dream of real-time cinematic-quality rendering of photorealistic environments with perfectly accurate shadows, reflections, and refractions so that they can create amazing content faster than ever before.

It also brings the power of **AI to visual computing** to dramatically accelerate creativity for artists and designers by freeing up time and resources through intelligent manipulation of images, automation of repetitive tasks and optimization of compute-intensive processes.

**Programmable shading features** enable creation of richer visuals with more fluid interactivity with large models and scenes and improved VR experiences. RTX technology also enables accurate modeling of the behavior of real-world objects in everything from games to virtual environments and special effects.



PREMIER



GOLD



BRONZE



TITANIUM





**INFINITY Titanium Workspaces leverage NVIDIA's A40** – an evolutionary leap in performance and multi-workload capabilities, combining best-in-class professional graphics with powerful compute and AI acceleration to meet the design, creative, and scientific challenges posed by modern AEC workflows.

**INFINITY GPU-Accelerated Workspaces and NVIDIA's A40** are driving the next generation of cloud workstations for creative and design professionals to work effectively anytime, anywhere, on any device.

*“I really liked the fact that the cloud technology democratized our computer systems. We’re not transferring any data from our local workstations. The workstations themselves, really become more like dumb terminals. So, no matter what computer was at a particular desk, they all now respond like high-end machines. Previously, due to cost, we’d have some users on higher-end machines. Now, all users have access to higher specs and computing power.”*



**Hector Inirio,**  
Design Technologist,  
SMMA