

A powerful partnership that
inspires innovative collaboration



NVIDIA and Dell Technologies

NVIDIA Omniverse™ Enterprise is a new way for collaborative teams to work better together on complex designs for Architecture, Engineering and Construction (AEC) and Media and Entertainment (M&E) projects. Visualizing dynamic results with Omniverse™ Enterprise allows for real-time project collaboration helping to realize successful outcomes. Dell Technologies is committed to offering innovative solutions to help customers manage their collaborative and performance-intensive workflows by combining the power of Dell Precision workstations and NVIDIA Ampere RTX™ GPUs with NVIDIA Omniverse™ Enterprise to create complete solutions for any sized organization.



For end users of Omniverse™ Enterprise, RTX™- equipped workstations are a must, as the platform takes full advantage of the real-time ray tracing those graphics cards enable. The Dell Precision 7920 Tower, which provides ultimate performance and scalability, can be equipped with up to three NVIDIA RTX™ A6000 cards (48GB VRAM each) for the most demanding Omniverse™ workloads. The Dell Precision 7920 Rack delivers the highest level of secure remote access and is a datacenter version of the workstation. There is no limit to your potential on these machines designed for the future – creating and connecting virtual worlds.

The power that Dell brings to the table is the scalability of the solutions and the potential to transform every stage of the 3D production workflow.

NVIDIA Omniverse™ Enterprise transforms workflows in industries where breathtaking, physically accurate, ray-traced rendering is pivotal for immersive visualization, accurate simulation, and faster reviews and discoveries.

The platform is flexible, easily customizable, and continuously enhanced with new Omniverse™ Apps, Extensions, and Connectors.



Get the latest information about
Dell Technologies and NVIDIA
Omniverse™ Enterprise.

What is Omniverse™ Enterprise?

The NVIDIA Omniverse™ Enterprise is an end-to-end collaboration and true-to-reality simulation platform that fundamentally transforms complex design workflows for organizations of any scale. Omniverse™ Enterprise unites teams, their assets, and software tools in a shared virtual space, enabling diverse workgroups to collaborate on a single project file simultaneously.

Permanent Shift to Hybrid Workforces

The impact of COVID-19 has made remote collaboration a necessity. Hybrid workplaces will rise. And by 2024, remote workers will represent 30% of all employees worldwide, an increase of 13% percent over 2019, to nearly 600 million employees. By 2023, 75% of G2000 companies will commit to providing technical parity to a workforce that is hybrid by design rather than by circumstance, enabling them to work together separately and in real time. IT teams will need to rise to the challenge of maintaining both on-premises and split remote workforces, without compromising business objectives.

The Importance of 3D in Industries

3D workflows are now an essential component of every industry. Everything that will be built, will first be designed and simulated in virtual worlds. Enterprises today are facing unique challenges with the rise in remote workforces and increasingly complex 3D production pipelines.

Providing solutions

Ultra-Large, Diverse Teams: 3D workflows require teams to hold an arsenal of extremely specific and wide ranging skills. These artists, designers, engineers, or visualization experts are often part of a hybrid workforce, working remotely or dispersed throughout the world. Each discipline requires its own software applications.

Rise in Complexity of 3D Workflows: Heavy 3D production pipelines are becoming increasingly complex as artists, designers, engineers, and researchers integrate technologies like global illumination, real-time ray tracing, AI, compute, and engineering simulation into their daily workflow.

Too Many Tools, No Compatibility: The explosion of the number of tools required to enable these workflows also adds to the difficulty as they are often incompatible, leading to long, arduous linear workflows that rely on tedious export-import.

Expectations for Physically-Accurate, Photoreal Simulation: The demand for faster time-to-solution, a maximum number of iterations at no opportunity cost, and the expectation of true-to-reality simulation and photorealism increases in parallel.





Dell Precision 7920 Tower

The Precision 7920 Tower combines versatile design and ultimate storage scalability to grow with your vision.



Precision 7920 Rack Workstation

The Precision 7920 Rack delivers the highest level of secure remote access with ultimate workstation performance.

Benefits

- ◆ Easily connect your workforce
- ◆ Achieve faster time to production
- ◆ Access secure IP from anywhere
- ◆ Global Full-Service Enterprise Support

As film, television, and broadcast undergo rapid changes, new production pipelines emerge to address the growing demand for high-quality content from a globally distributed workforce. NVIDIA Omniverse™ Enterprise gives teams the ability to create, iterate, and collaborate on assets using a variety of creative 3D applications to deliver real-time results.

Teams can focus on maximizing iterations with no opportunity cost or having to endure long render times to achieve high-quality results.

Deploy NVIDIA Omniverse™ Enterprise across studios of any scale, from small workgroups using local desktops and laptops, to globally distributed teams accessing the data center using various devices. Unite your teams, tools, and systems while maintaining flexibility in how your teams prefer to work.

An open platform built for speed and collaboration

Revolutionizing workflows across industries – Omniverse™ Enterprise unites teams, assets, and software tools in a shared virtual space, enabling diverse workgroups to simultaneously collaborate on a single project file.

With real-time interoperability across applications, infinite iterations come at no opportunity cost. Design teams can maximize creative risks to achieve new heights of quality and innovation with faster time-to-market. The platform is optimized and certified to run on the Dell Precision 7920 Tower and the Dell Precision 7920 Rack.



How it works

NVIDIA Omniverse™ Enterprise is a platform for connecting 3D worlds into a shared virtual universe. The platform is used across industries for projects, which involve collaboration and creating 'digital twins'. For example, BMW Group uses Omniverse™ Enterprise to create a factory of the future, a perfect digital twin, simulated in NVIDIA Omniverse™ Enterprise.

Enhanced & Accelerated workflows

Omniverse™ Enterprise is a design collaboration tool that provides live collaboration between users and applications: Brings together users and top industry 3D design tools in real time on a single, interactive platform (a shared virtual space). Workflows are simplified as updates, iterations, and changes are instantaneous with no need for data preparation.

Multi-GPU scalability – building large to massive 3D environments

Omniverse™ Enterprise, built from the ground up for scalability, enables artists to unite assets, libraries and tools to help bring their ideas to life. Working as a hub, Omniverse™ unlocks real-time multi-app workflows across different applications simultaneously, linking popular 3D creative apps and replacing tedious independent pipelines with intuitive live-sync creation. Connect your favorite design applications to Omniverse™ Enterprise to revolutionize your 3D workflows and open up new ways to build and explore your ideas – faster than ever.

For more information:



Learn more about NVIDIA Omniverse™ Enterprise
and a Free 30 Day Evaluation through Dell.