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The NVIDIA Omniverse Starter Program

NVIDIA Omniverse is a powerful, open platform for real-time 3D design collaboration and physically accurate simulation. By connecting 3D applications and enabling simultaneous multi-user workflows, Omniverse revolutionizes the way teams design, simulate, and deploy complex visual and AI-enabled systems. For companies considering the integration of Omniverse into their workflows, the **Omniverse Starter Program** provides a structured and strategic approach to assessing value, proving concepts, and developing a foundational understanding of Omniverse.

The Omniverse Starter Program is designed for organizations that are not yet using Omniverse and want to explore the Omniverse value proposition tailored to their specific business needs. Tailored to each client, the program delivers a 6 to 12-month evaluation experience through guided and measurable projects. All starter projects utilize Universal Scene Description (USD) file formats to facilitate efficient, scalable, and collaborative workflows.

Benefits

- Accelerate time-to-value with real-time simulation and collaboration
- Improve cross-functional integration between engineering, design, and simulation
- Reduce development errors through unified physics and AI-driven workflows
- Enable digital twin creation and live data streaming
- Support sustainable and scalable enterprise deployment

Structure

Each Starter Project is scoped and executed with five delivery phases described below.

1. Application and Success Definitions

- Define business objectives, use case targets, and success KPIs
- Identify stakeholders and align expectations
- Draft proof-of-concept goals for implementation

2. Assets, Models, and Connections

- Assess existing 3D assets, CAD models, and data sources
- Prepare assets for Omniverse ingestion (USD format, semantic layering, physics tagging)
- Establish live connections with enterprise applications and live data sources

3. Omniverse Application Development

- Build proof-of-concept scenes using Omniverse Create or USD Composer
- Apply AI, physics simulation, and custom logic scripting
- Develop visualization dashboards and digital twin interfaces

4. Application Review and Refinement

- Conduct feedback sessions with end users and stakeholders
- Iterate on the interface, logic, and performance outputs

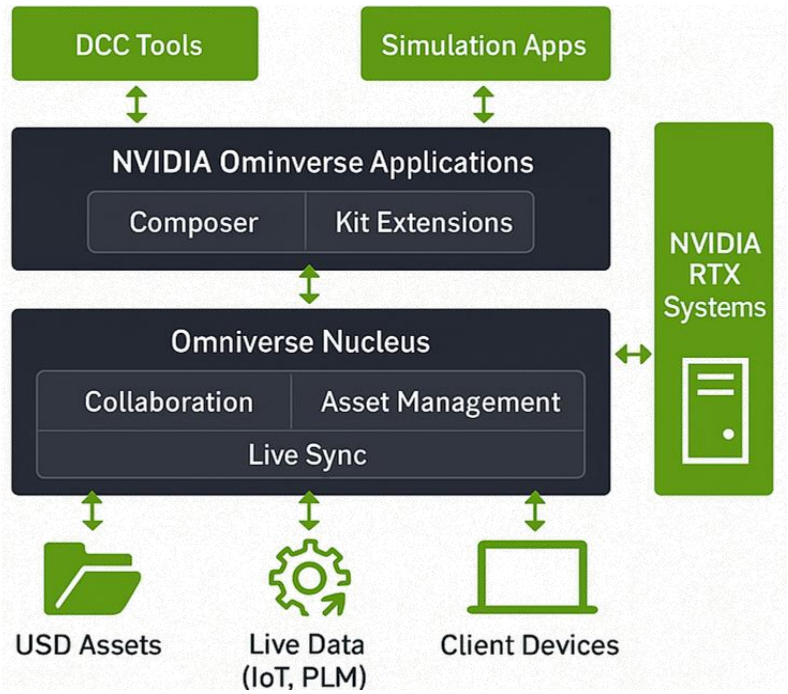
5. Metrics and Reporting

- Track results, simulation accuracy, and performance metrics
- Deliver an executive report that includes performance against success criteria, contributor feedback, pilot value assessment, and recommendations for production deployment

Common Use Cases for Starter Projects

- Smart manufacturing and factory planning
- Product development simulation and review
- Real-time architectural visualization and product configurator
- Dynamic Operation Digital Twins for Manufacturing
- Training, safety, and immersive onboarding environments

Sample Omniverse Implementation Architecture



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Digital Twins, Advanced Visualization and Simulation

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