

3DEXCITE DELTAGEN MARKETING SUITE RELEASE NOTES

R2023x



DELTA GEN MARKETING SUITE 2023x Release

The following pages list the new features and enhancements as well as minor version changes of the DELTA GEN MARKETING SUITE 2023x release. In addition you can find the hardware requirements, support contact and licensing information in this document.

NEW FEATURES

DELTA GEN HUB

Save for distribution

New option to export scenes to the USD format.

Considered scene properties:

- Structure
- Visibility
- Geometries as polydata including normals and UVs (material and shadow)
- Metadata of scene objects
- Materials as USDSurfacePreview
- Scene object animations
- Variants (Switch, Geometry set, Object set, Look set, Code state set, Package)

Supported formats:

- .usda (ASCII)
- .usdc (binary)
- .usdz (archive)

File structuring options:

- Monolith
- By linked files
- By metadata

DELTABATCH configurator

- Auto scroll showing always the most recent message in the log window

Scripting

- Location of scripts on disk can be opened directly
- Separate log window for messages printed during script execution

Search and replace

- Option to copy the search results to the clipboard
- Additional preset to delete patterns from a found string occurrence

AxF

- New AxF 1.8 material type "Transmissive Layered" (only volumetric based)
- New sheen parameters for material type "EP SVBRDF" introduced with AxF 1.9

Colors

- Easy transfer of color properties via copy and paste
- Definition of colors of point-, spot-, directional- and rectangular lights based on their temperature

Pixel sampler

- New sampling mode "Picked pixel"
- New sampling mode "Selected rectangle" with multiple aggregation functions (min, max, average)
- Display of alpha channel for raw data
- Magnified view of picked and neighboring pixels
- New option to copy a picked color to the clipboard

Connector to 3DExperience

Publishing of additional asset types:

- Turntables as 2.5D images

New operations applicable for assemblies and parts:

- Saving of individual linked files
- Lock / unlock
- Modification of maturity
- Reload from server
- Replace by revision

History window

- Window showing the entire history of operations triggered by the user
- Bulk undo of multiple operations

DIRECT MAYA® Plugin

Version Support: The DIRECT MAYA Plugin 2023x supports the current Autodesk® Maya release as well as the previous 3 major releases:

Qualified	Compatible
Autodesk® Maya 2023	Autodesk® Maya 2019, 2020 and 2022

Qualified: supported by the DIRECT MAYA Plugin and tested using extensive functional workflows.

Compatible: no functional workflows coverage, but no known technical limitations.

For questions regarding other Autodesk® Maya releases contact the 3DEXCITE Support.

ENHANCEMENTS

- The version reader supports both csb and 3xf files (since 2022x RF1)
- The Stellar renderer can be restarted to release unused memory (since 2022x RF1)
- Improved conversion of Linear Light Scanner and Metallic paint to DSPBR
- Improved autocompletion for editing Code state sets finding matches also within names of available actors
- Context menu option to copy and paste texture slot properties
-

DELTAGEN STAGE

DELTAGEN STAGE contains all new features and enhancements of DELTAGEN HUB as well as the following:

NEW FEATURES

GPU GI with Stellar renderer

- Lower GPU memory consumption due to support of compressed textures
- Support of metadata in ambiances
- Configurable shadow intensity of ambiances ground
- Support of Ground shadow pass in the active viewer and in Render export
- Enhanced clamping to reduce fireflies

DStellar Batch rendering

- Better time-to-quality using adaptive sampling with denoising

Mesh light material

- New rotation parameter for IES profiles
- New option to align the IES profile with the local normal of the surface

ENHANCEMENTS

- Improved presets for GPU GI rendering in Stellar mode (since 2022x RF1)
- Lower bandwidth required for offline rendering with DStellar (since 2022x RF1)
- Improved DStellar initialization time on large clusters (since 2022x RF1)
- Infiniband support for interactive rendering with DStellar
- Physical glow also during interaction
- Support of cubemap dds files assigned to ambiances and local surroundings in Stellar

VERSION CHANGE AND COMPATIBILITY

Rendering

- Newly created ambiances have Background set as "FromLighting"
- Interactive shadow has been dropped as available shadow texture mode
- Changed presets of color temperatures after alignment with new option to select the RGB color by its temperature
- Factor of goniometric lights is set to 1.0 by default (since 2022x RF2)
- Intensity multiplication factor and multiple light bulbs contained in IES files are correctly considered
- The shadow baking presets use existing UVs by default
- Multiplication / addition values set for DSPBR textures are ignored if the texture slot is disabled
- Mesh light materials can't be created in DELTAGEN HUB
- The appearance of ambiances with a reflective ground created with DELTAGEN 2022x has changed

SolidWorks import

- Imported SolidWorks parts are integrated as soon as they are used by multiple configurations (since 2022x RF2)
- Import of active configuration does not create unnecessary switches or empty groups (since 2022x RF2)
- Looks are named according to appearance assigned in the SolidWorks file (since 2022x RF2)

Misc

- The PICTUREBOOK Browser Plugin is not delivered anymore as part of the DELTAGEN MARKETING SUITE installer.
- The undo stacks of open scenes and look libraries are cleared, when executing a python script

SYSTEM REQUIREMENTS

The following quotes the required setup specifications for running DELTAGEN and DELTAVIEW and also for processing the 3D scenes that will be loaded.

Only NVIDIA® graphic cards are capable of displaying all visual effects and shaders created with our software. This cannot be guaranteed with graphic cards from other manufacturers.

Graphics Cards

Qualified	Validated	Compatible
NVIDIA® Quadro RTX6000, P6000, GV100, M6000	NVIDIA® Quadro RTX5000, P5000, P4000, GP100, M5000, M4000	NVIDIA® RTX A4000, RTX A5000, RTX A6000, Quadro RTX4000, M2000

Qualified: tested using extensive functional workflows.

Validated: tested using basic functional workflows.

Compatible: no functional workflows coverage, but no known technical limitations.

Operating System

Component	Recommended	Minimum
DELTAGEN	Windows® 11	Windows® 10
DELTABATCH	x64 Enterprise	x64 Enterprise
DELTAVIEW		

Monitor Resolution

Component	Recommended	Minimum
DELTAGEN	1920 x 1200	1280 x 1024
DELTABATCH		
DELTAVIEW		

Recommended Drivers

Component	NVIDIA driver	Certification document
DELTAGEN	513.46	Available upon request
DELTABATCH		
DELTAVIEW		

Additional Software

Component	Minimum requirements
DELTAGEN	Apple QuickTime Player
DELTAVIEW	(for QuickTimeVR export)
XPLORE DELTAGEN	Web browser, supporting HTML5 (Google Chrome™ browser is recommended)

SUPPORT CONTACT

Visit [3ds.com/support](https://www.3ds.com/support) or have a look into our knowledgebase on support.3ds.com/knowledge-base for helpful information.

In case you have further questions, our support team is happy to help you:

Customers who purchase their software via media order (MO) and obtain their licenses via the Key Management Center (KMC), can report incidents to DS by using the 3DSupport App: <https://www.3ds.com/support/contact/call-us/submit-a-request/>

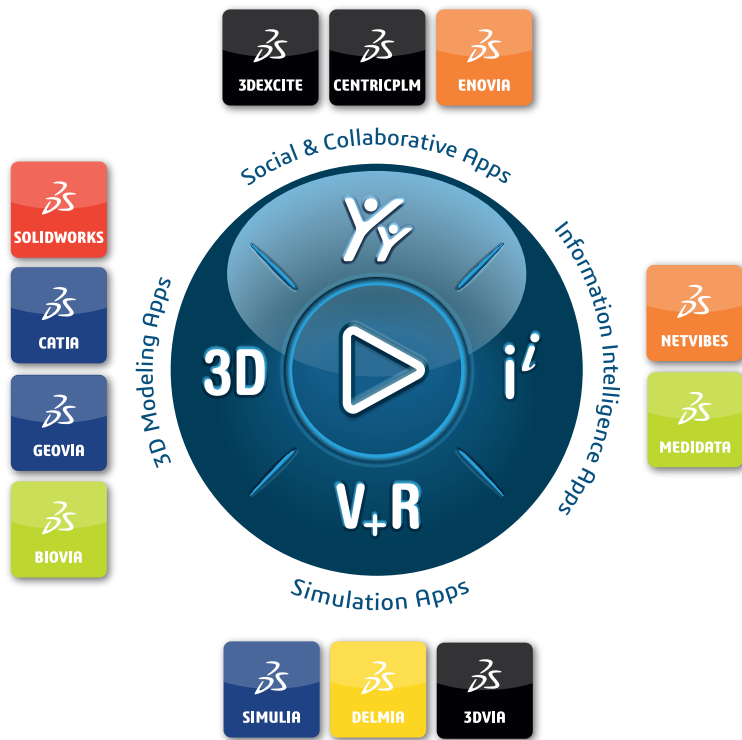
All other customers should report incidents per e-mail to:

3DEXCITE.Support.Global@3ds.com

DASSAULT SYSTEMES LICENSE SERVER SUPPORT

In addition to FlexLM, the DS License Server (DSLS) is supported for licensing DELTAGEN HUB and DELTAGEN STAGE. This allows easier maintenance of your systems, especially if other software packages are running with the DS License Server. During the installation process you can choose your preferred license server.

- Please contact 3DEXCITE.Support.Licensing@3ds.com if a FlexLM license is needed for 3DEXCITE products.
- For DSLS licensing please refer to the Software License Key terms (<https://www.3ds.com/terms/software-keys/>). Here you can obtain your new DSLS license directly.



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