Designer r32.4 Release Notes

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Full (Pro) build: *240856*
Starter build: *240857*
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New Features

With r32.4, we have introduced a range of improvements to OmniCal, including new API endpoints for the RigCheck workflow, QuickAlign improvements and image checks during capture.

Designer now also supports FBX animations loaded from meshes. These can be controlled using the new Scene Animation Layer, which also handles Alembic animations.

We have introduced the new [OCIO Layer](#), enabling you to apply OCIO transforms to generic content.

OmniCal Enhancements

- **New [RigCheck API](#)**: New OmniCal API endpoints allow users to programmatically trigger RigChecks, monitor their progress, retrieve result data and more.
- **New [OmniCal Score](#)**: A streamlined metric makes it easy to assess and compare calibration quality across different Plans and RigChecks.
- **Advanced Image Diagnostics**: New [post – capture processes](#) automatically detect out – of – focus camera lenses and identify potential shifting of cameras, projectors, or surfaces by comparing RigCheck blobs against the original Plan.
- **QuickAlign Improvements**: Usability has been upgraded with a new [AlignmentPoint list editor](#). This provides a clear overview of the current alignment state and allows for rapid point editing, such as easily toggling the "reshape" function.
- [Disk Space Management](#): You can now easily clear old unused RigCheck results directly via the UI or API to free up storage.

Animation Enhancements

- **FBX Animation Support**: Designer now supports FBX animations loaded directly from meshes. Learn more about it [here](#).
- **Scene Animation Layer**: This newly introduced [Scene Animation Layer](#) provides centralised, intuitive control over both FBX and Alembic animations.

Improvements

- **DSOF – 29245**, **DSOF – 30626** & **DSOF – 32147** – OmniCal: Support new Vimba X SDK / driver version 2025 – 3.
- **DSOF – 27178**, **DSOF – 29108** & **DSOF – 30373** – OmniCal: Better network camera error checking and logging.

- **DSOF – 27259** & **DSOF – 27307** – OmniCal: Automatic camera discovery management during GUI and API use.

- **DSOF – 30773** – OmniCal: Camera Stats window now shows camera temperature and effective network packet size, e.g. to confirm Jumbo Packet configuration.

- **DSOF – 27967**, **DSOF – 27978**, **DSOF – 28278** & **DSOF – 31150** – OmniCal: Performance improvements for QuickAlign and Bundle Adjustment.

- **DSOF – 26342** – OmniCal: Alignment Point editor now shows vertex and world position to help identify what part of the mesh a vertex is from.

- **DSOF – 27669** – OmniCal: For better visibility during alignment QuickAlign now allows customising the wireframe colour.

- **DSOF – 17906** & **DSOF – 17907** – OmniCal: Add information regarding percentages in the Blob Detection Stats table.

- **DSOF – 27615**, **DSOF – 27874** & **DSOF – 32012** – OmniCal: Cleaned up and reorganised several GUI elements. Most importantly, RigCheck has now its own collapsible section.

- **DSOF – 13495** & **DSOF – 32086** – OmniCal: OmniCal settings now use checkboxes instead of Yes/No or On/Off drop – down selections for quicker editing.

- **DSOF – 26221** & **DSOF – 26226** – OmniCal: Add tooltips to many options, buttons and windows.

- **DSOF – 27968** – Minor performance improvements to Feed view and VideoIn scope views.

- **DSOF – 31706** – The mesh centroid calculation is now more accurate for large scale meshes.

- **DSOF – 32076** – Expressions now support casting String objects to Integer objects with the `int()` function. More information can be found [here](#).

- **DSOF – 31874** – The `getContentViewpoints` API endpoint now returns more useful data for Plugin developers.

- **DSOF – 30266** – Device monitors for monitoring incoming data (OSC, DMX, Tracking etc.) now has a "Last Received" column which shows the machine timestamp the last command was received. This is to improve troubleshooting.

- **DSOF – 32084** – Designer can now export Sockpuppet personalities in MA2 XML format again.

- **DSOF – 31625** – Users can now access the SMC API endpoints with NGINX the same way they do with Designer endpoints by sending commands to `api/smc`.

- **DSOF – 25454** – Downloads initiated via Web Plugins now display a useful progress bar.

- **DSOF – 32025** & **DSOF – 32024** & **DSOF – 31999** – Sending RenderStream texture parameters is now more performant, lower latency, and we have exposed additional graphs to display their latency in real – time.

Fixes

- **DSOF – 19711** – OmniCal: Prevent session conflicts during QuickAlign reshape in multi – machine sessions.

- **DSOF – 31997** – OmniCal: When opening Capture Setup, all projectors are now correctly selected, so that switching from BlackLevel image to e.g. Alignment image works without issues.

- **DSOF – 27452** – OmniCal: If a camera times out during capture, this will now cause the whole OmniCal process to abort, as expected.

- **DSOF – 31161** – OmniCal: Disable Vimba X setting "Auto Adjust Packet Size" whenever OmniCal cameras are used in Designer. It can also be manually disabled in Vimba X Viewer. This setting is enabled by default by the Vimba X driver, but it was found to cause network problems for OmniCal captures.

- **DSOF – 27258** – OmniCal: Loading a Plan or RigCheck result no longer shows a "Could not open capture.txt" error, if the capture folder is empty.

- **DSOF – 25454** – Exporting Sockpuppet Personalities that have unicode characters now works properly.
- **DSOF – 32062** – Playing the timeline from the start of a Video Layer with embedded audio will no longer skip the first few frames of audio if the Playhead was previously stopped at the start of the Video Layer.