

OVERVIEW

These release notes provide a list of changes to the Carbon DLS API. If you wish to use any of the new features listed below, you will need to update your programs that interact with the API.

Overview of changes:

- New features
 - Printers endpoint now includes printer alias
 - New options for Build SOPs
 - Additions to Experimental Endpoints

You can find API-related documentation on our GitHub repository, located at <https://github.com/carbon3d/carbon3d-api>. A shortened version of these release notes is also available via GitHub: <https://github.com/carbon3d/carbon3d-api/releases>.

If you have any questions and/or feedback, please contact support@carbon3d.com.

NEW FEATURES

Printers endpoint now includes printer alias

When querying the Printers endpoint (GET /printers), the server response now includes the printer's alias. An alias is a new name given to a printer after it is manufactured. This is an optional field; not all printers will have an alias. Customers will be empowered to freely change a printer's alias in a future software release.

The value "name" (printer name) will continue to correspond with a printer's name at the time of manufacture, and has not changed.

New options for Build SOPs

Build SOPs, which are used in automated print preparation, now support the following new configurable values:

- **Printer type:** Build SOPs were previously compatible only with L1 printers; all Carbon printer types are now supported
- **Print profile:** "Default" is now a selectable option; use this option if you wish to automate print preparation without attaching a specific print plan
- **Remove parts with holes:** If you opt to skip "Repair parts," you can now opt whether or not to keep parts that have holes on your build; de-selecting "Remove parts with holes" is recommended if you wish to skip repairing parts and use the Gen2 Slicer to repair parts at the slicing step
- **Auto Layout Algorithm:** Automated print preparation is now compatible with Gen2 Auto-layout (feature in BETA release)

- **Slice Thickness:** Automatically prepared prints previously required the selection of a Print Profile that dictated slice thickness; if you opt to use the Default print profile, you can now select your desired Slice Thickness (Default/Standard, Fine, Superfine)
- **Reduce Part Order Fragmentation:** Reduces the number of discrete builds that parts from a single Part Order are printed on; may increase the time required to prepare each build
 - *Note: This feature was previously available to some users on an as-needed basis; it is now accessible to all users*

Build SOPs are created and managed via your Carbon dashboard at print.carbon3d.com/build_sops. If you wish to use any of these new features for your automated print preparation, create a new Build SOP and begin referring to the relevant uuid during print preparation.

Additions to Experimental Endpoints

Experimental Endpoints (introduced in API v0.4.4) have been expanded. Experimental Endpoints are for internal testing purposes only and are not suitable for external use.

FEEDBACK

Please reach out to support@carbon3d.com or file issues on our GitHub repository.

INTERNAL NOTES

Do not include the following information in customer-facing communications; this is for internal tracking only.

Tickets implicated in named improvements:

- Release version in Jira
 - <https://carbon3d.atlassian.net/projects/CLP/versions/12212/tab/release-report-all-issues>
- Alias/Hardware type in /printers response
 - <https://carbon3d.atlassian.net/browse/CLP-28399>
- GetPresignedUploadUrl.End but no ResolvePresignedModelUpload.End
 - <https://carbon3d.atlassian.net/browse/CLP-27259>
- Fixed logging for “ResolvePresignedModelUpload.End”
 - <https://carbon3d.atlassian.net/browse/CLP-28020>
- Bump version from 0.4.4 to 0.4.5
 - <https://carbon3d.atlassian.net/browse/CLP-28598>
- Add support for Draco surface mesh support
 - [Commit 20efd7](#)

Confluence home for API release notes:

<https://carbon3d.atlassian.net/wiki/spaces/SW/pages/1829045191/Laser+Release+Notes>

Github home for API release notes:

<https://github.com/carbon3d/carbon3d-api/releases>