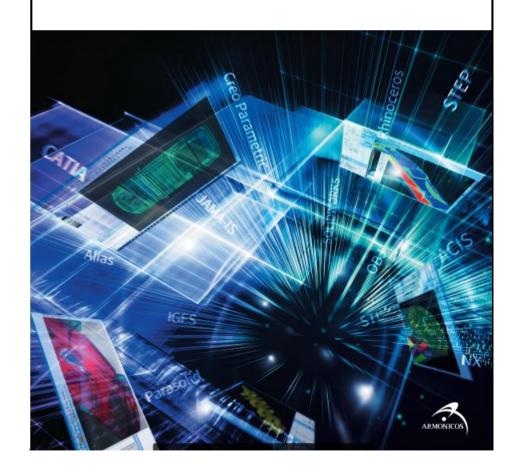
# All-in-One 3D CAD Data Translator

# spGate 2023.1

**Upgrade News** 



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# **Supported 3D CAD Format Version Enhancements**

Only the expanded part is shown in red text.

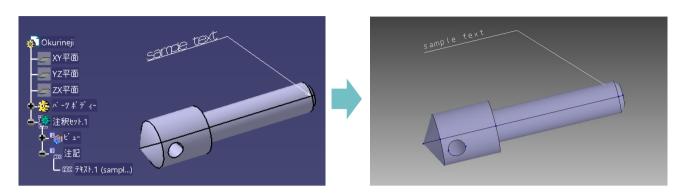
System/Format	Import	Export
CATIA	V5-6R2022(R32)	V5-6R2022(R32)
NX	2007	-
Creo	8	-
SOLIDWORKS#	2022	-
Alias	13.0 ~ 2016	13.0 ~ 2016
Rhinoceros	2.0 ~ 6.0	3.0 ~ 6.0
Parasolid	34.0	13.0
ACIS	2022 1.0	2022 1.0
IGES	~ V5.3	V5.3
STEP	AP203, AP214	AP203, AP214
STL	0	0
OBJ	0	0
JT#	8.1, 9.0, 9.1, 9.5	8.1
CAM-TOOL	-	V13.1
Maya	-	V8.0
CFIO	0	0
spGauge	-	2017.1
spScan	2020.1 ~ 2022.1	2013.1

- # require optional licenses.
- For the latest import/export specifications, please visit the spGate WEB site. https://www.armonicos.co.jp/en/spgate\_blog/io/

## [CATIA V5 Import] Import 3D annotations

Import of 3D annotations of CATIA V5 is now available.

There is no import option. Import is forced. (CATProduct is not supported).



#### Import/Export

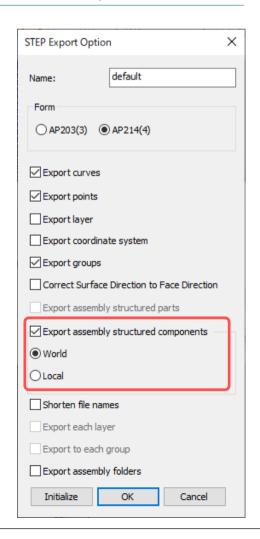
# [Common Export] Select world/local coordinates for export

In "Export assembly structured components," it is now possible to select a coordinate system for export.

World: Export in the global coordinate system

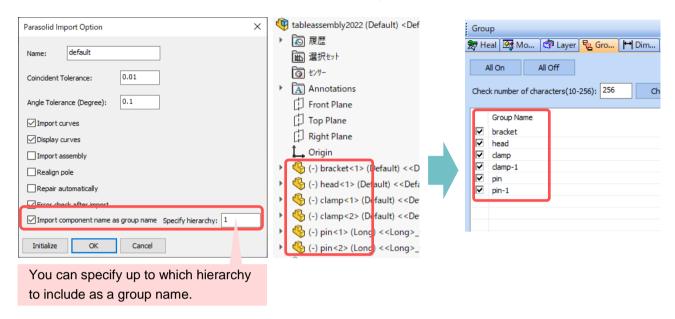
Local: Export in each part's coordinate system

This function is effective when importing a model as an assembly.



# [Parasolid Import] component name → group name

Parasolid component names can now be imported as group names.

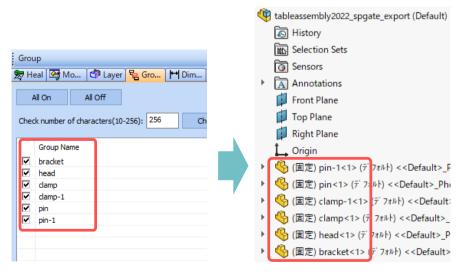


#### Import/Export

## [Parasolid Export] group name → component name



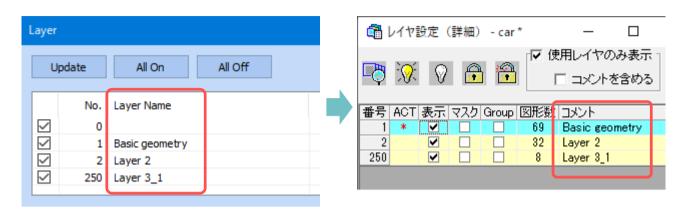
Group names can now be exported as Parasolid component names.



Import/Export

# [CAM-TOOL Export] Layer names can now be exported as comments

Layer names can now be imported into the comment field of CAM-TOOL's layer settings.



Import/Export

#### [CAM-TOOL Export] Layer No. extended from 1 to 1024

CAM-TOOL Export has been expanded to layer No.1~1024.

Layer No. 0, 1025 or later

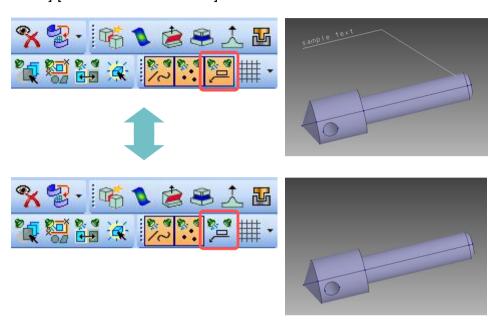
Layer No. 0 on spGate: Merged into layer No. 1

Layer No. 1025 and after on spGate: Merged into layer No. 1024

## [View] Show/Hide 3D annotations

Show/Hide the 3D annotations.

Menu: [View]-[Display Control]-[Show/Hide Annotations]

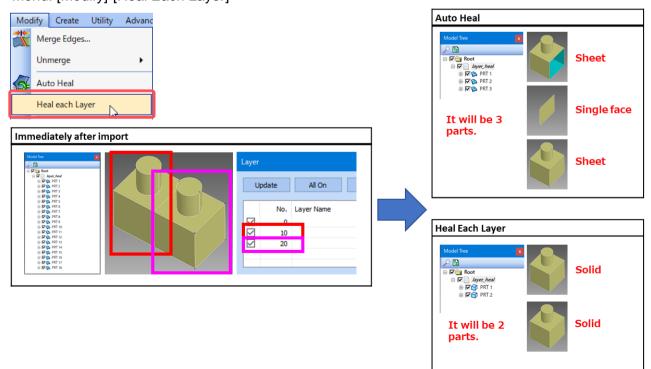


#### **Enhancements**

### [Modify] Auto Healing per layer

Automatic healing can now be performed on a per-layer basis.

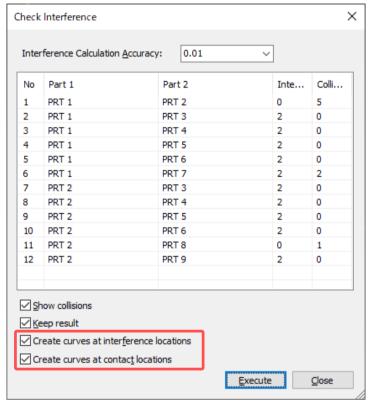
Menu: [Modify]-[Heal Each Layer]



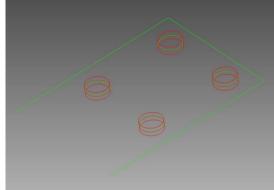
#### **Enhancements**

# [[Advanced Tools] Create wireframes at interference/contact locations

Wireframes can now be created at "Interference locations (red)" and "Contact locations (green)".



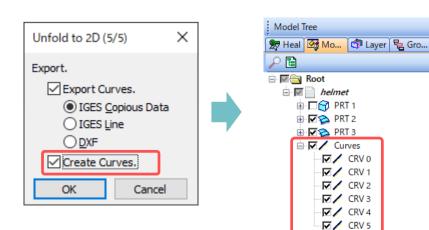
By exporting the created curves, you can check the interference/contact locations in CAD.

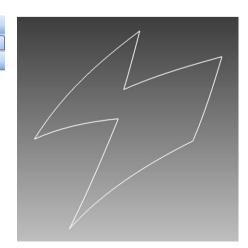


#### Enhancements

#### [Advanced Tools] Create curves on 2D outline

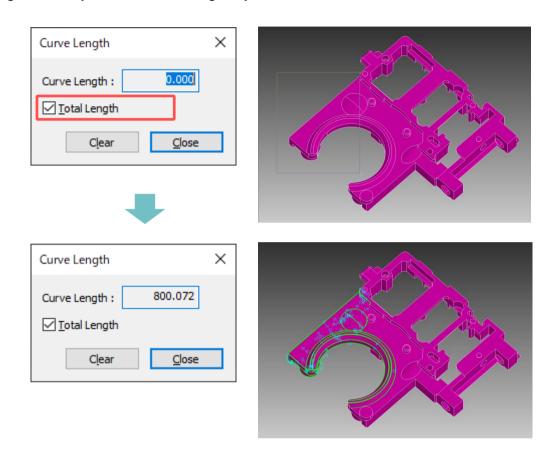
You can now check the curves after 2D expansion on spGate.





## [Analyze] Curve Length: Rectangle selection

When "Total Length" is ON, you can now rectangularly select the curves to measure.

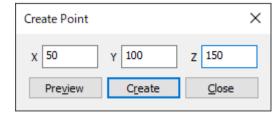


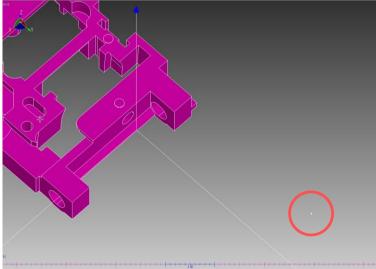
#### **Enhancements**

# [Create] Create Point

"Create Point" function has been added.

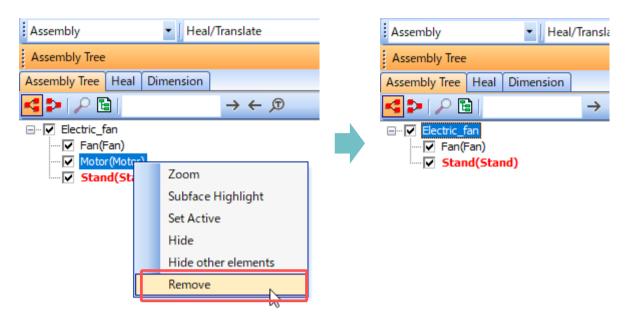
Menu: [Create]-[Create Point]





# [Assembly Mode] Remove Component

Components of an assembly can now be removed.



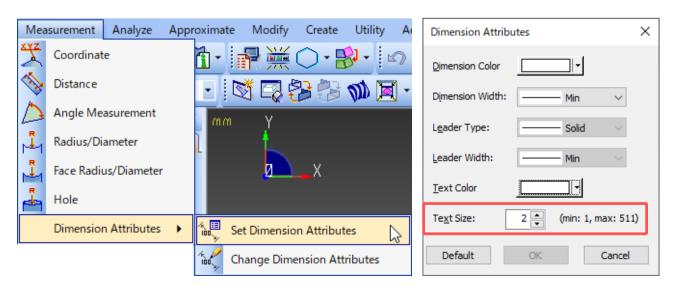
Specification change, etc

#### [Measurement] Dimension Attributes: Changed the text size configuration method

The text size of dimensions created in the "Measurement" menu can now be set from "1" to "511".

Menu: [Measurement]-[Dimension Attributes]-[Set Dimension Attributes]

note: The command has been moved from the "View" menu to the "Measurement" menu.

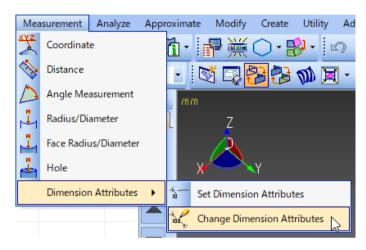


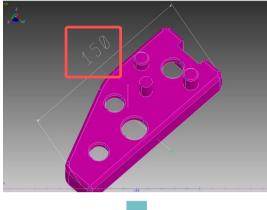
Specification change, etc

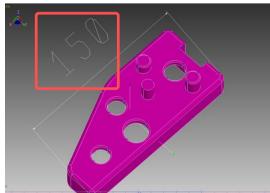
# [Measurement] Dimension Attributes: Resize text after creating dimensions

It is now possible to change the text size after creating a dimension.

Menu: [Measurement]-[Dimension Attributes]-[Change Dimension Attributes]



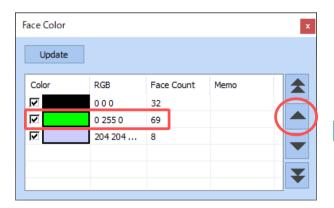


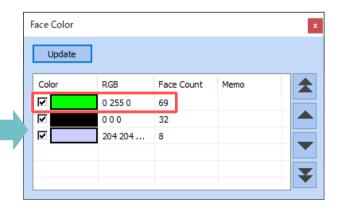


Specification change, etc

# [Face Color Pane] Reordering

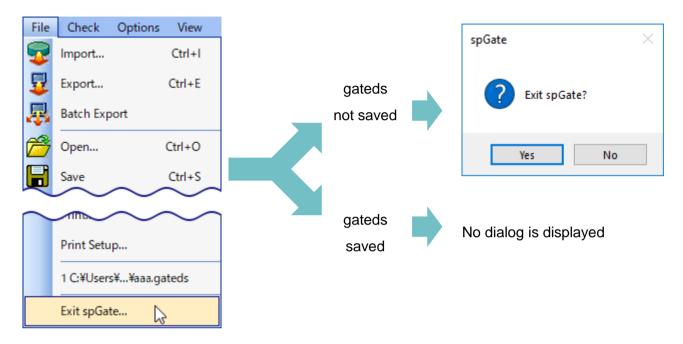
The order of colors can now be reordered.





## [File] Exit spGate: Warning Dialog

When exiting spGate, a warning dialog is no longer displayed if the model has been saved.



# Developer



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