

All-in-One 3D CAD Data Translator

spGate 2022.1

Upgrade News



2022.1 Upgrade Details

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[Specification change, etc]

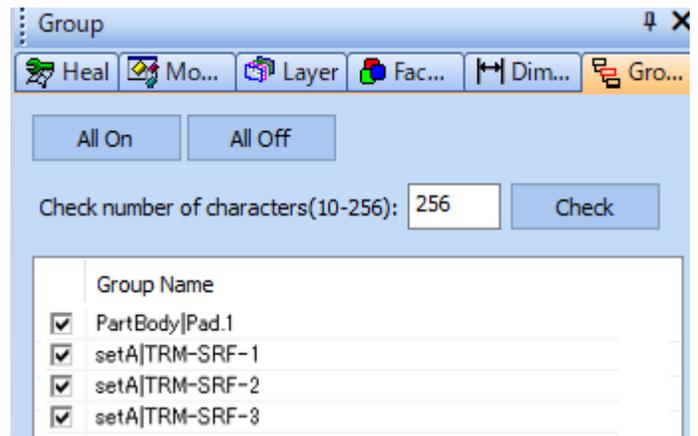
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[Import/Export] 1. Supported 3D CAD Format Version Enhancements

System /Format	Import	Export
CATIA	V5-6R2021(R31)	V5-6R2021(R31)
NX	1953	-
Creo	7	-
SOLIDWORKS #	2021	-
Alias	13.0 - 2016	13.0 - 2016
Rhino	2.0 - 6.0	3.0 - 6.0
Parasolid	33.0	13.0
ACIS	2021 1.0	2021 1.0
IGES	- V5.3	V5.3
STEP	AP203, AP214	AP203, AP214
STL	○	○
OBJ	○	○
JT #	8.1, 9.0, 9.1, 9.5	8.1
CAM-TOOL	-	V13.1
Maya	-	V8.0
CFIO	○	○
spGauge	-	2017.1
spScan	2019.1 – 2021.1	2013.1

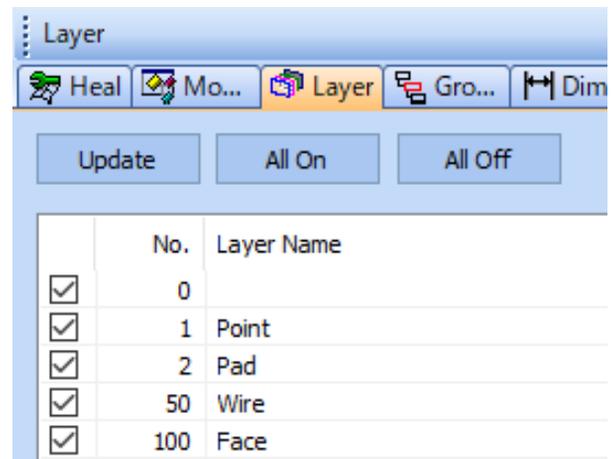
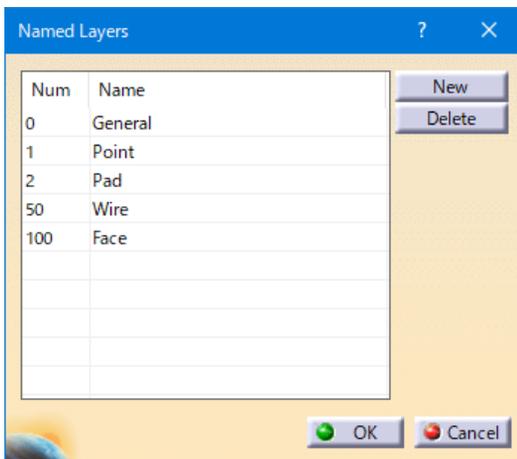
- Only the expanded part is shown in red text.
- # require optional licenses.
- Please see the website for [https://www.armonicos.co.jp/spgate_blog/io/]

[Import/Export] 2. Import CATIA feature names



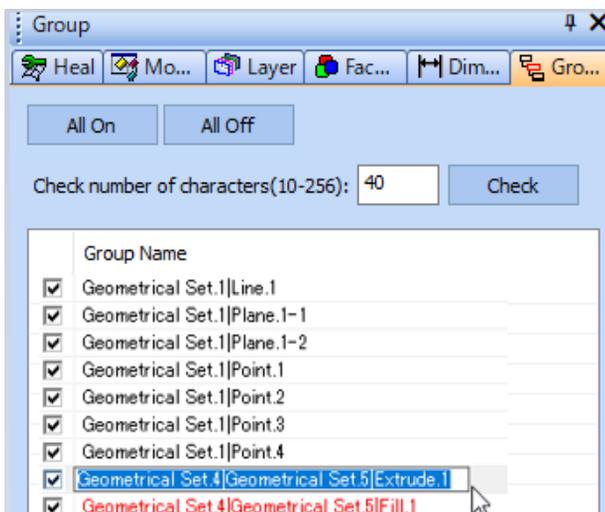
CATIA feature names can now be imported as group information.

[Import/Export] 3. Import CATIA V5 layer name



CATIA V5 layer names can now be imported.

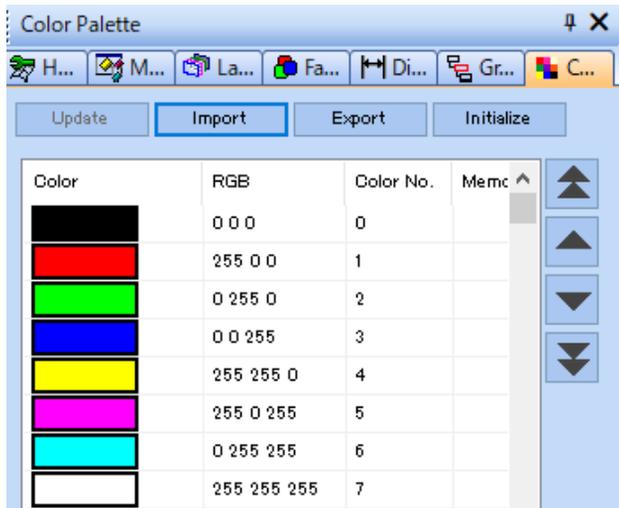
[Enhancement] 4. Group pane enhancement



There is a character limit for group names depending on the CAD system.

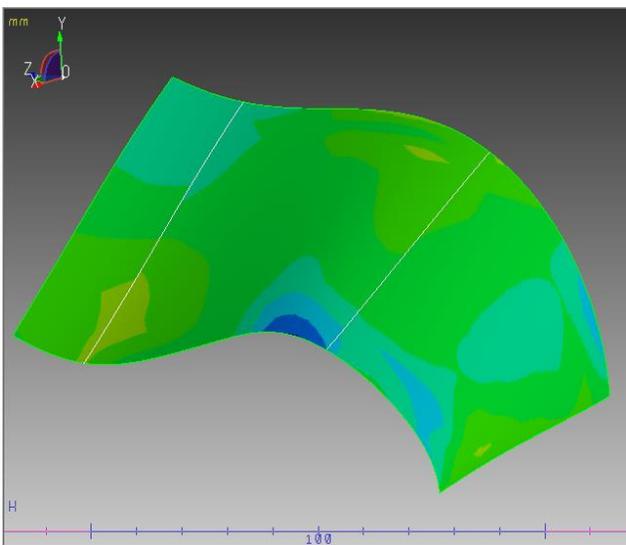
You can check the group name (red characters) that exceeds the character limit and change the name.

[Enhancement] 5. Color palette



"Color Palette Pane" has been added. You can create / save your own color palette.

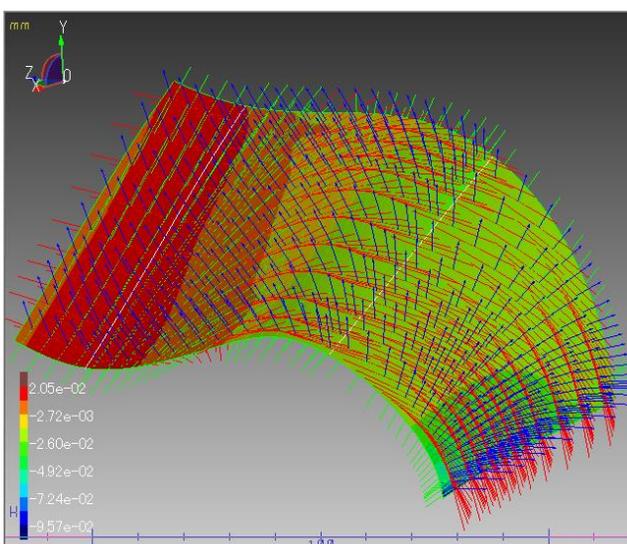
[Enhancement] 6. Gauss curvature



The conventional "Check Surface Deformation" command has been renamed to the "Check Curvatures" command.

At the same time, a new "Gauss curvature" has been added.

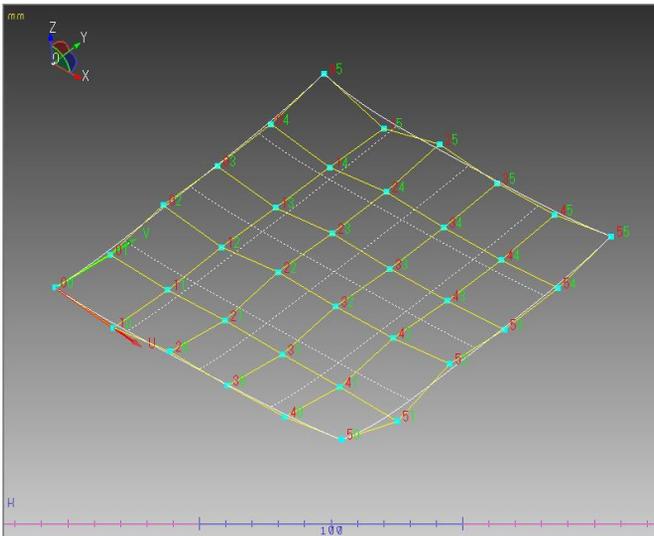
[Enhancement] 7. Principal curvature



The name of the conventional computation method "Normal curvature" has been changed to "Principal curvature (Maximum)".

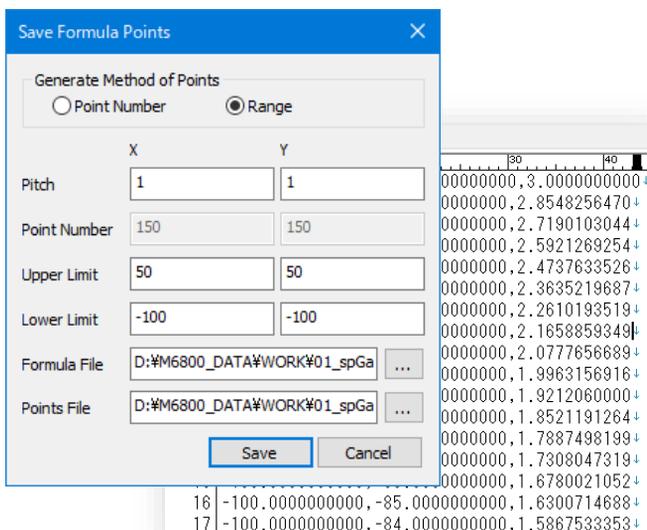
At the same time, it is now possible to control "maximum principal curvature direction display", "minimum principal curvature direction display", and "normal direction display".

[Enhancement] 8. Create Formula Surface



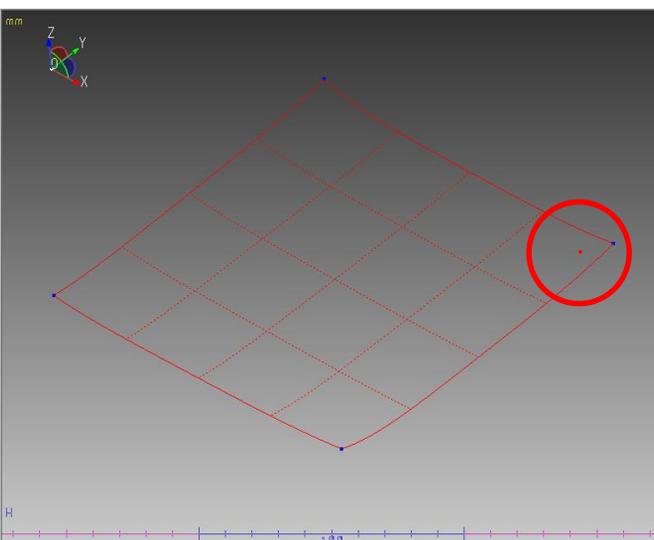
You can automatically create a surface by importing a formula surface.

[Enhancement] 9. Save Formula Points



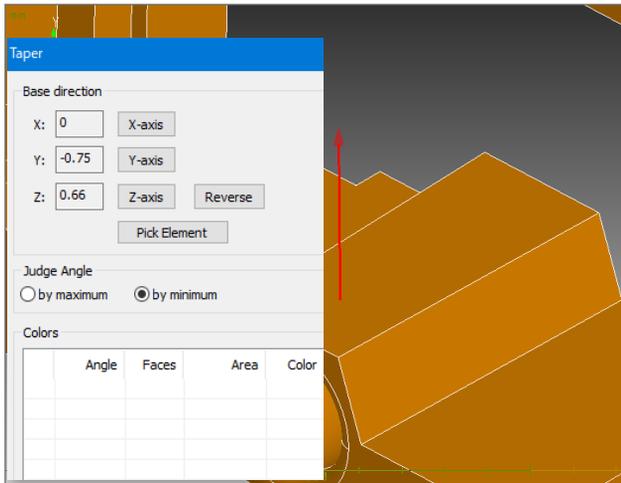
By importing the formula file of the curved surface, it is now possible to automatically export points on the surface.

[Enhancement] 10. Compare Formula Surface



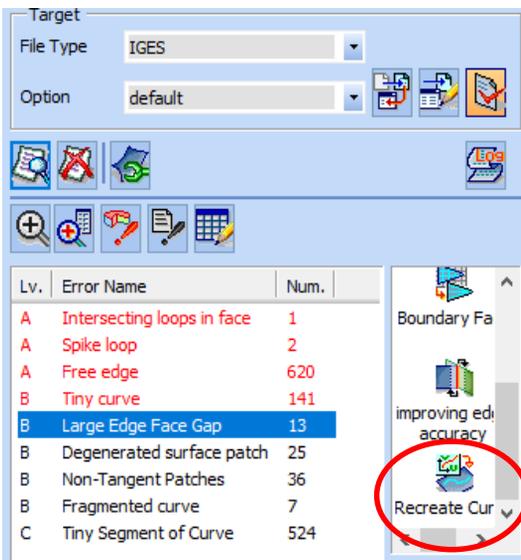
It is now possible to check the gap between "CAD model" and "formula surface file".

[Enhancement] 1 1 .Feature recognition/Taper



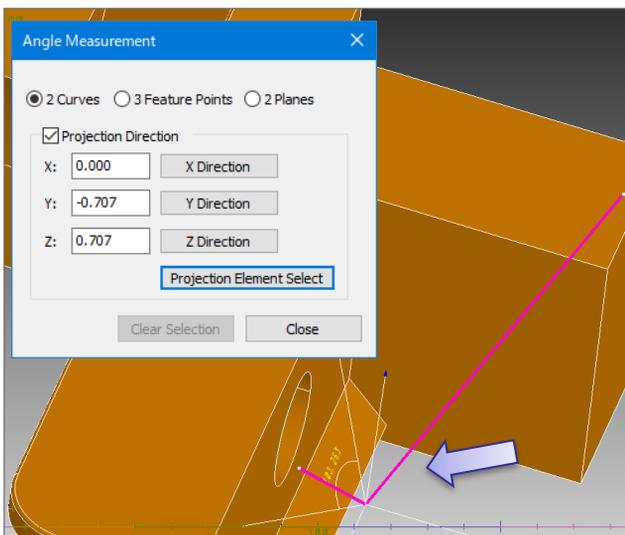
A new [Pick Element] button has been added.
It is possible to specify the normal direction of any surface.

[Enhancement] 1 2 . Heal icon "Large Edge Face Gap"



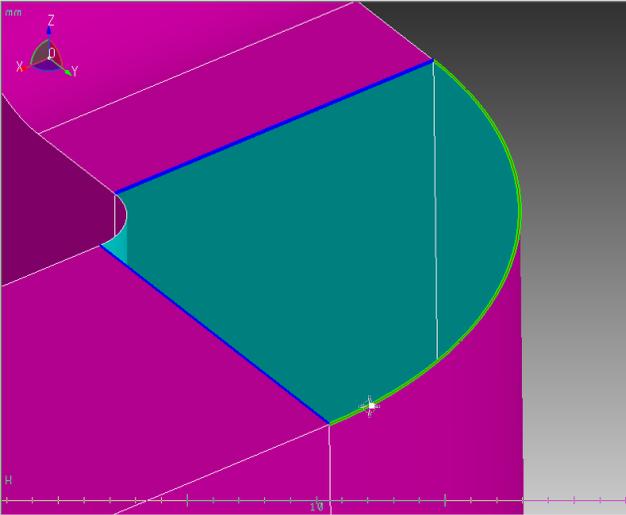
"Recreate curve" was added to the heal icon of "Large Edge Face Gap".
Automatically corrects the incorrect 3D curves.

[Enhancement] 1 3 . Projection angle calculation



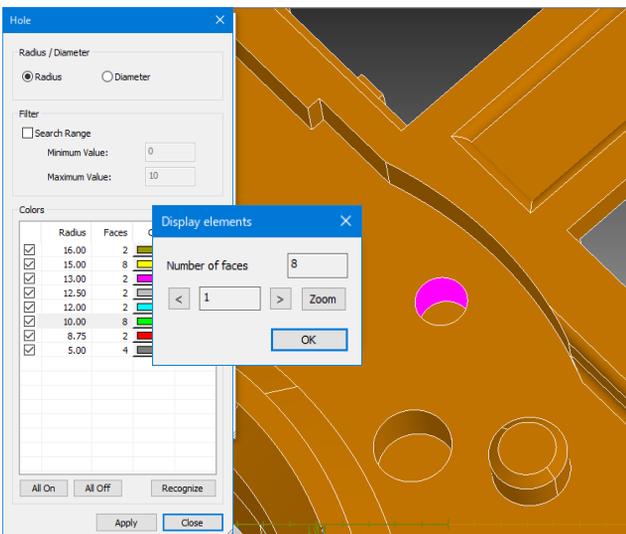
It is now possible to measure angles with two straight lines projected onto a plane.

[Specification change] 1 4. Trimmed Boundary/Boundary



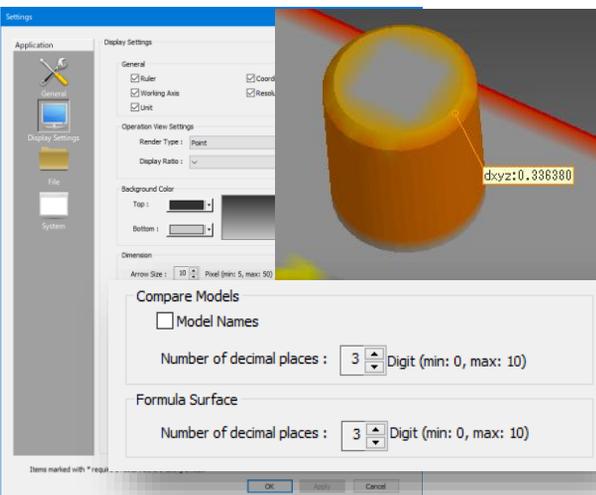
Similar to the face trim command, the edge to be selected is displayed in blue in the trimmed boundary / boundary face command.

[Specification change] 1 5. Feature Recognition (ZOOM)



After zooming in on the target of various "Feature recognition" commands such as fillet, taper, and hole, the highlight (temporary) is retained.

[Specification change] 1 6. Specify the number of decimal places



"The number of decimal places can now be specified for "Gap value for Compare Models" and "Formula Surface: Save Formula Points".

Developer

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