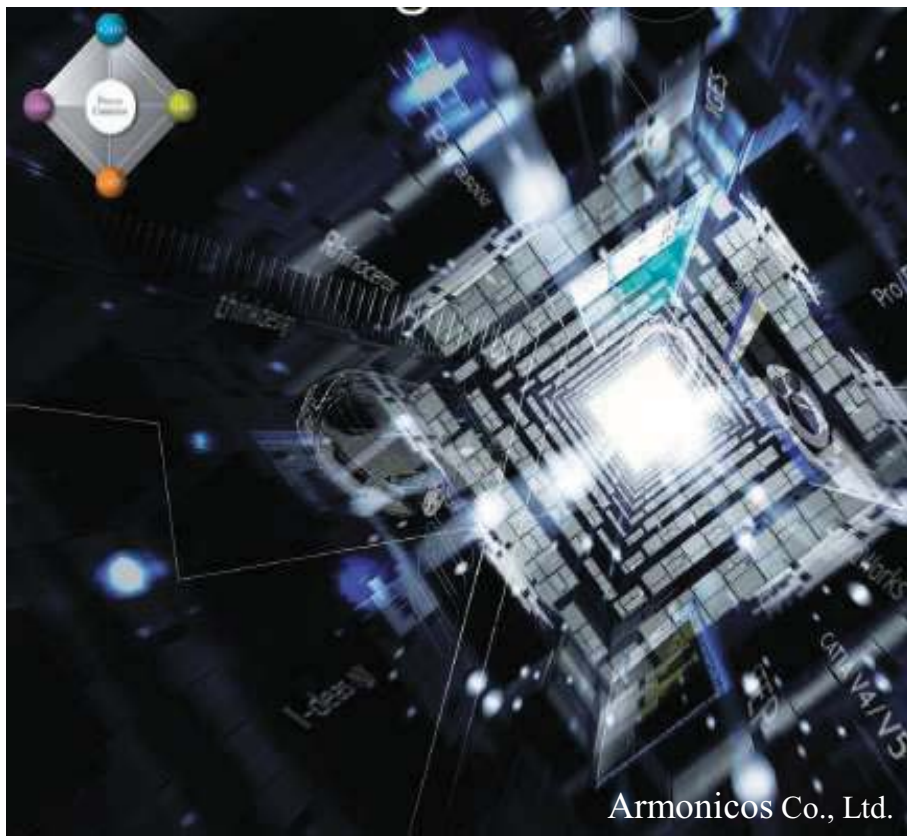


Process Connector

spGate 2011.1

Enhancements



Armonicos Co., Ltd.

2011.1 Enhancements

« Import/Export »----- P1

01. Newly Supported 3D CAD Format

CAM-TOOL	Write	6.2
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02. Supported 3D CAD Format Version Enhancements

NX (UG)	Read	7.5
SolidWorks	Read	2011
Alias (StudioTools)	Read/Write	2011

03. Feature Enhancements

Parasolid	Write	Assembly support
Parasolid	Write	Analytics surface/curve supported
ThinkDesign	Write	Assembly support
All	Write	Assembly structured components

« New Features »----- P4

04. Polygon Mode

- (1) Integrate PolyMend into spGate
- (2) Cut mesh using face
- (3) Create Mesh from face

05. Compare Models Detect differing faces between 2 parts

« Feature Enhancements »----- P7

06. Clip View: Create sectional curves

07. Intersection Curve: Create intersection curve between faces

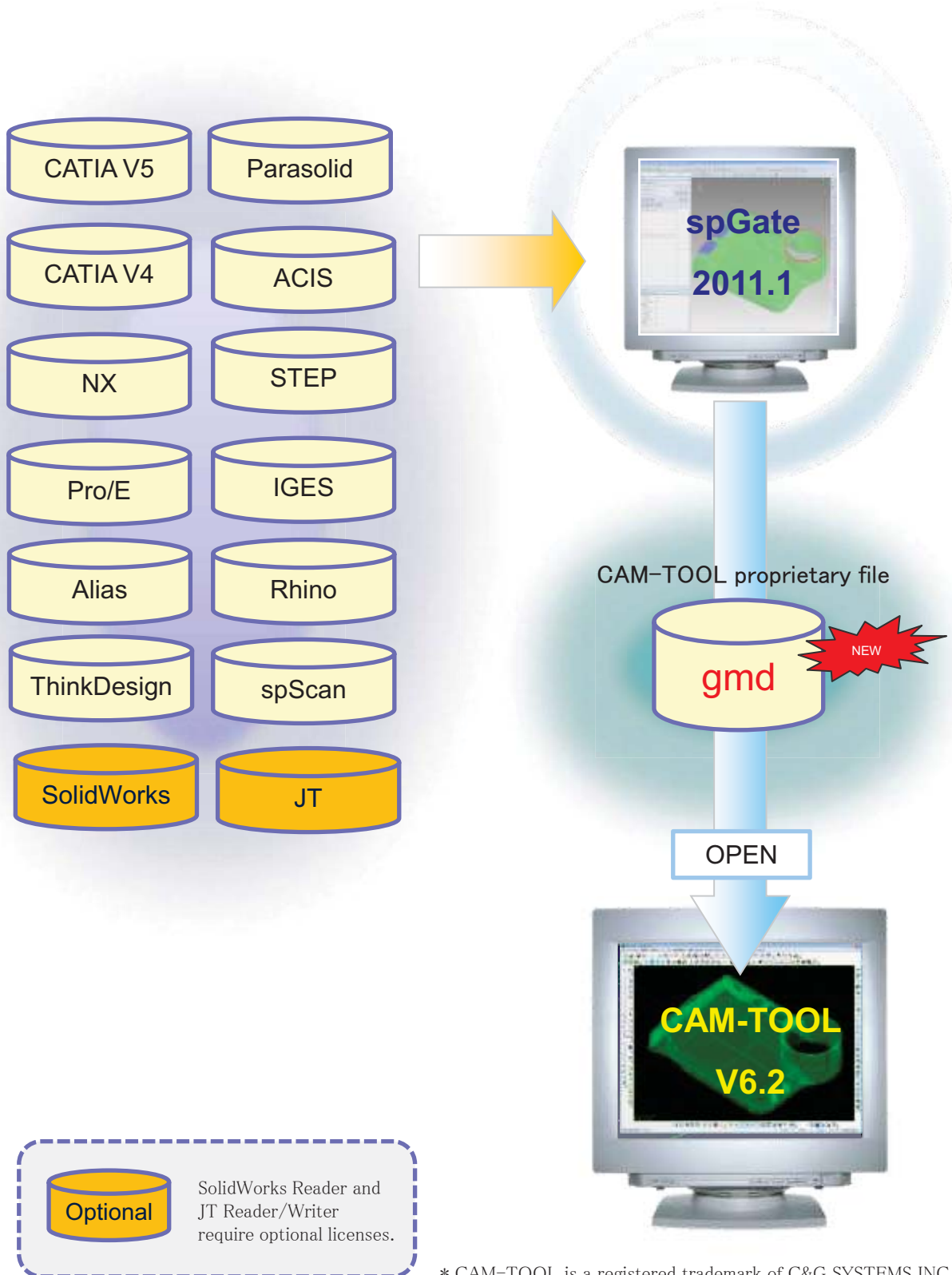
08. System Settings: Updated dialog (added Language Settings and Dimension attribute)

09. Dimension Attributes: Configure measurement dimension attributes

【 Import/Export 】

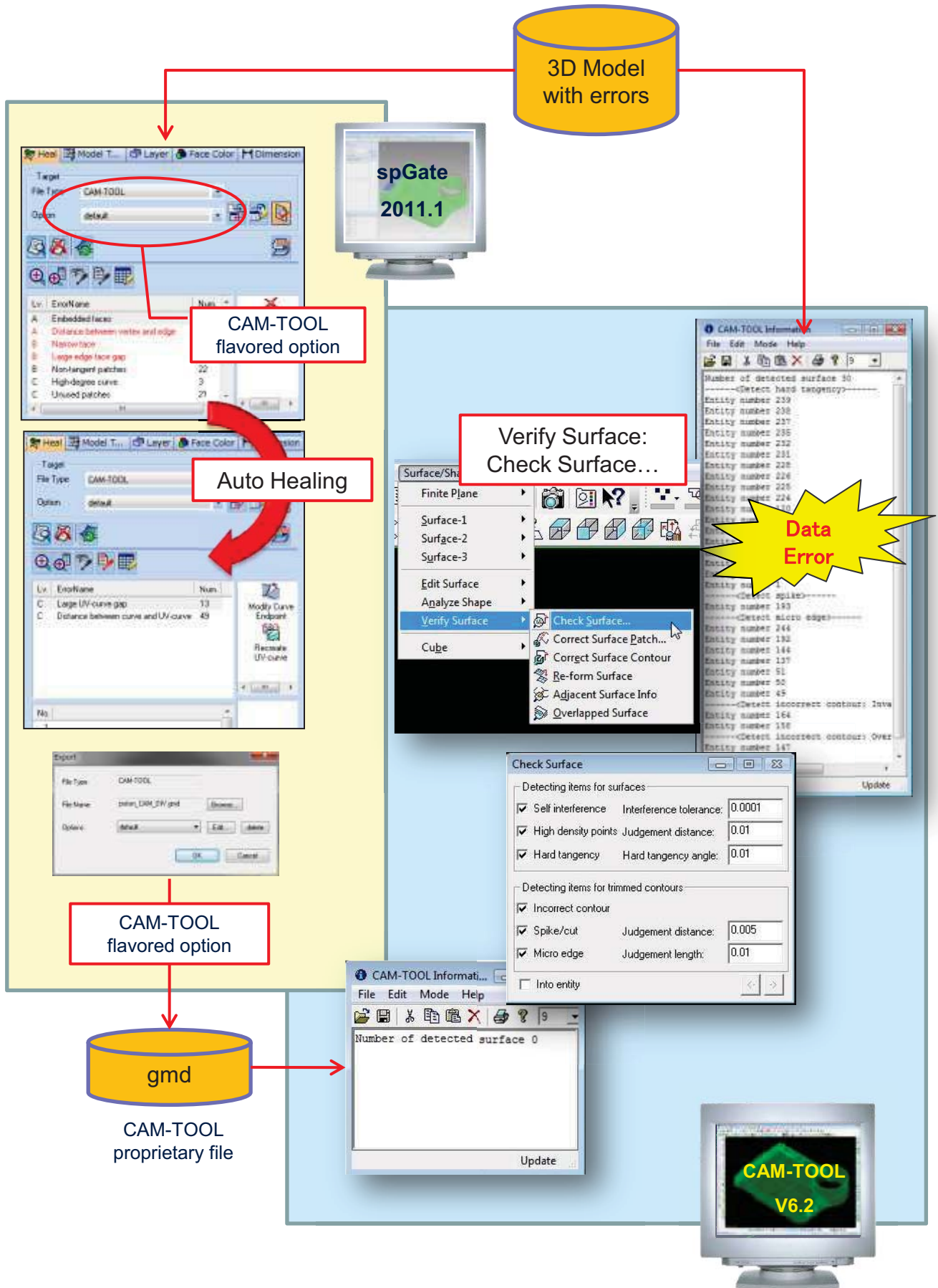
01. Newly Supported 3D CAD Format

CAM-TOOL V6.2 proprietary file format [.gmd] export is now supported.



* CAM-TOOL is a registered trademark of C&G SYSTEMS INC.

Added a new 3D model proprietary file format to export list. Auto healing can now be performed specifically for CAM-TOOL export to gmd file format.



【 Import/Export 】

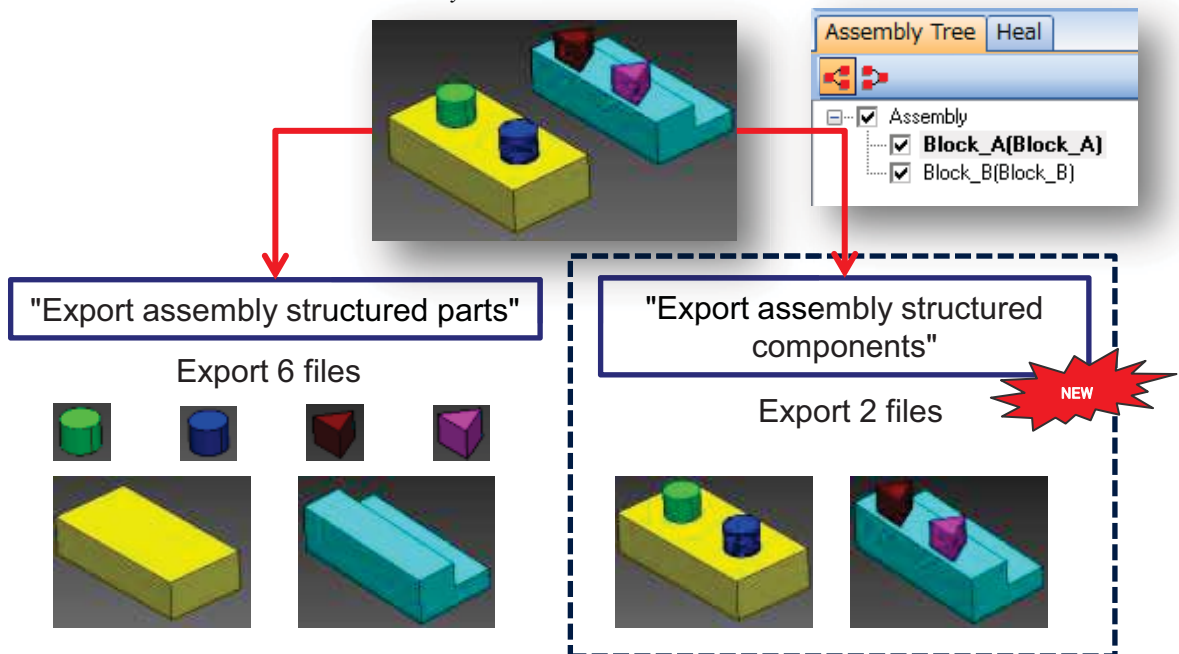
02. Supported 3D CAD Format Version Enhancements

- NX 7.5 Import the latest version of [.prt] files
- SolidWorks 2011 Import the latest version of [.sldprt / .sldasm] files (optional License)
- Alias 2011 Import/Export the latest version of [.wire] files



03. Feature Enhancements

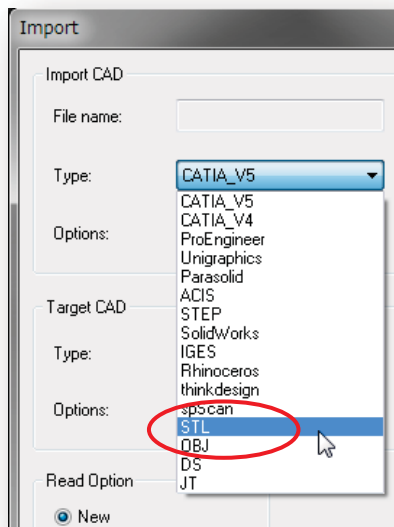
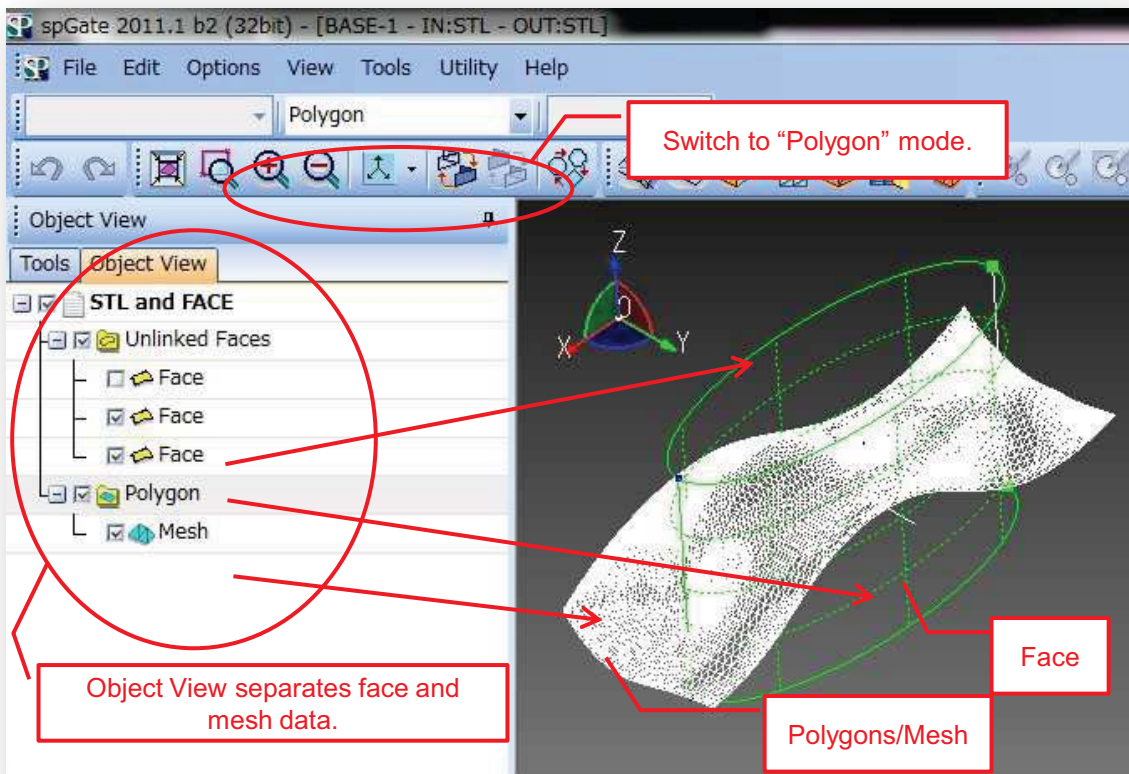
- Parasolid Assembly export is now supported.
- Parasolid Support for approximated analytic curve and faces.
- ThinkDesign Assembly export is now supported.
- All Added export option to **"Export assembly structured components"** from Assembly Mode.



【 New Features 】

04. Polygon Mode

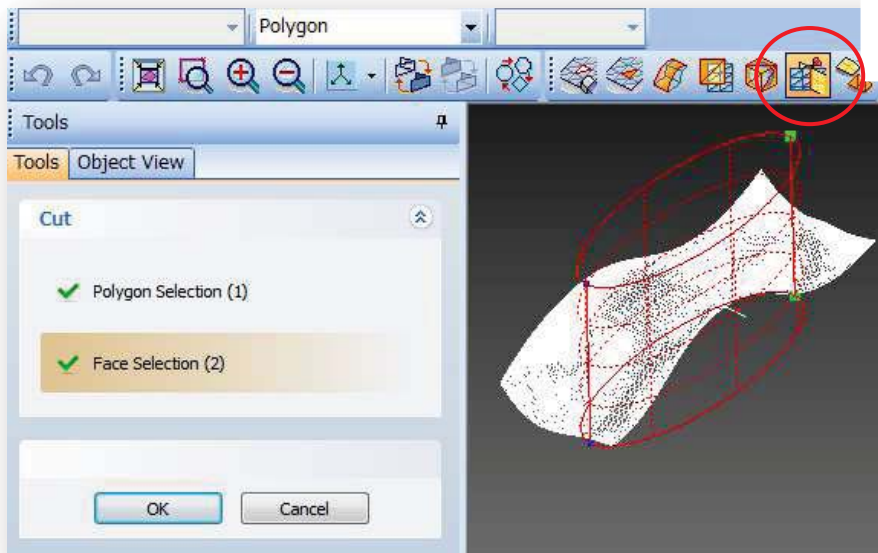
PolyMend application has been integrated into spGate as “Polygon” mode.



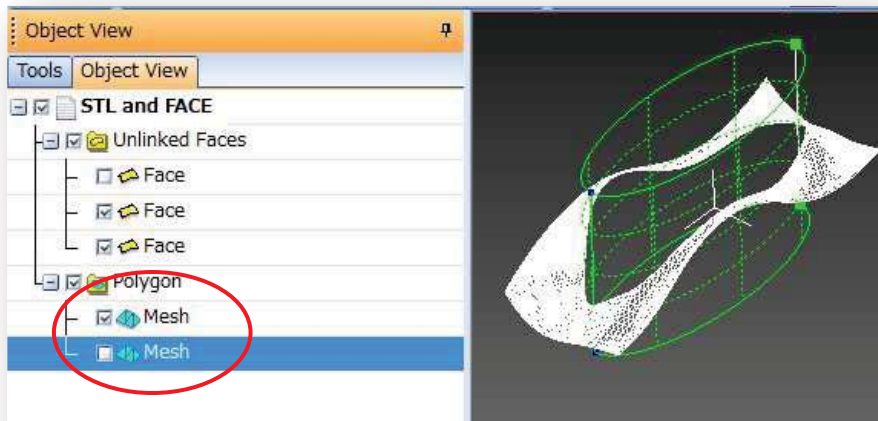
“STL” and “OBJ” is now listed as an import file type due to integration of PolyMend and spGate.

The above model was created by first importing STL data and then importing IGES data (faces) using the “Add to Active File” option.

STL and FACE



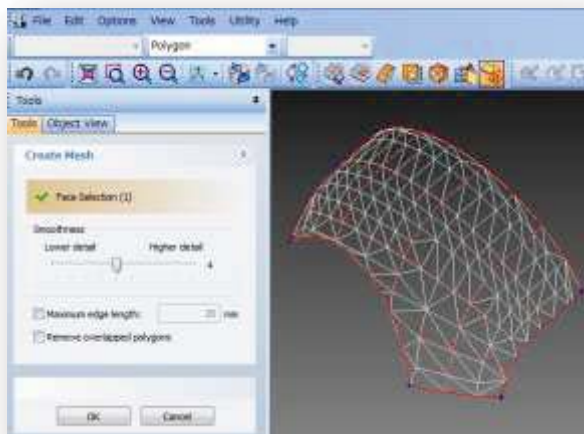
Meshes can be divided into two by **Cutting** a mesh using faces.



Hide unwanted meshes to export only visible meshes to STL.

Return to Heal/Translate mode in order to write the model to STL.

As with previous versions, and faces shown during export will be converted to polygons when writing to STL.

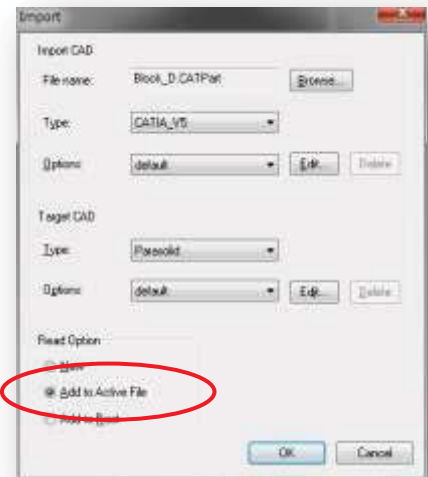
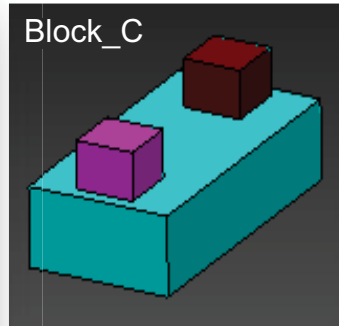
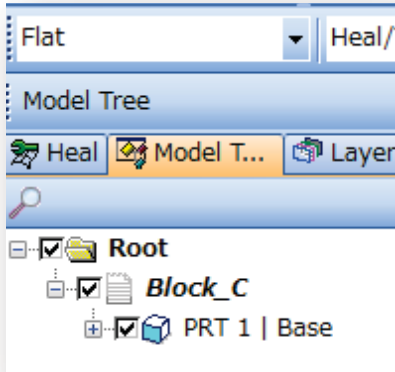


Create Mesh can convert faces into polygons to be viewed within spGate.

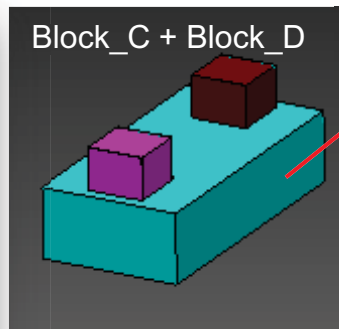
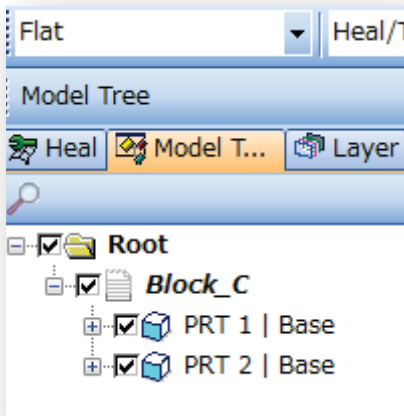
05. Compare Models

【 Advanced Tools / Compare Models...】

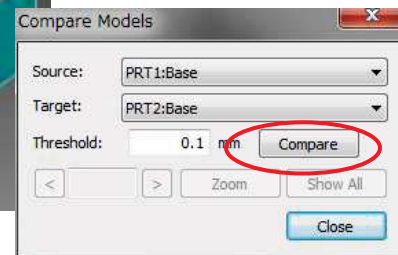
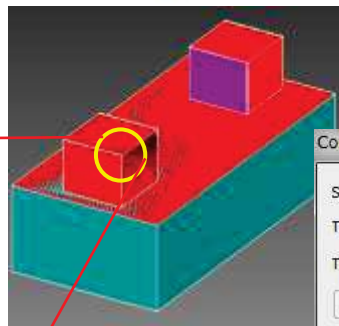
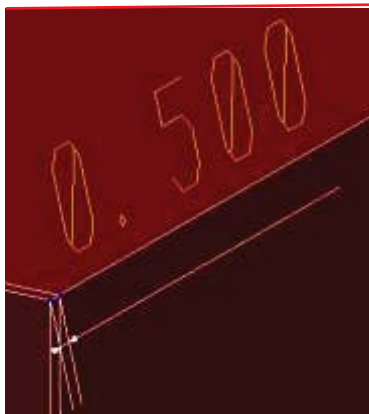
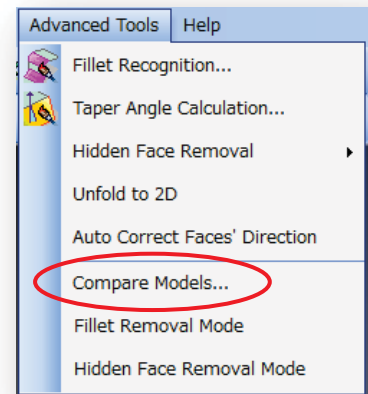
Compare two parts to find differing faces.



Import file 1 (Block_C), then import file 2 (Block_D) as "Add to Active File."



2 models are overlapped



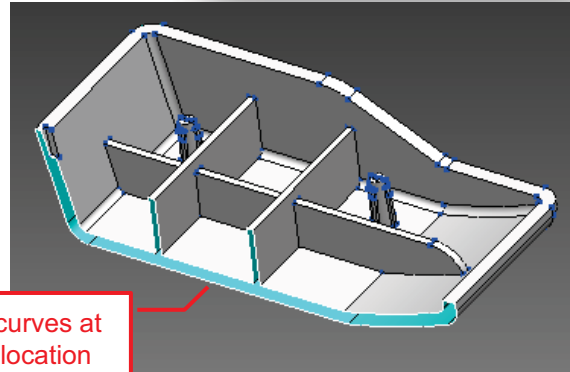
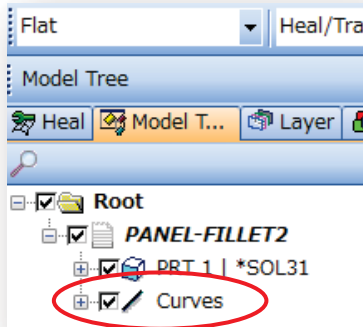
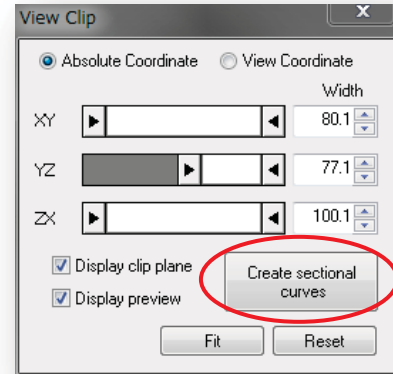
Differing faces are highlighted. Zoom in and use the Measurement command to find out the exact displacement distance.

【 Feature Enhancement 】

06. Clip View

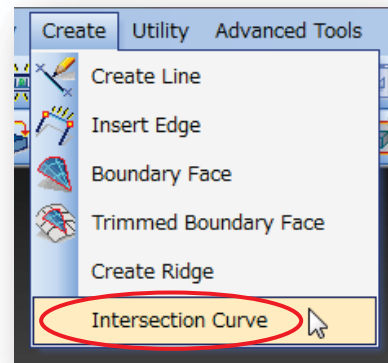
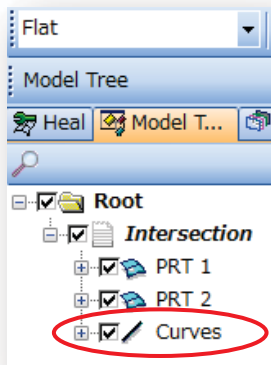
【Menu: View/Clip View】

The newly added [Create sectional curves] button in the View Clip dialog will create sectional curves at the clipped view location.

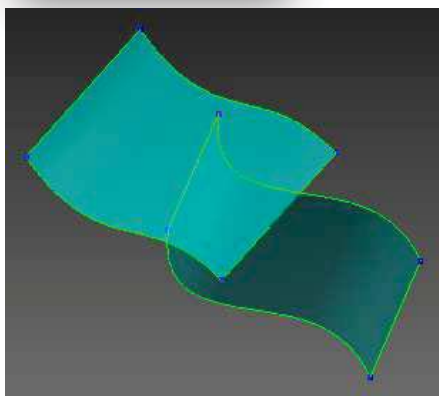


07. Intersection Curve

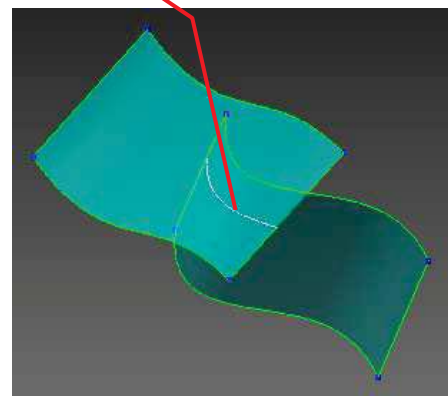
【Menu: Create/Intersection Curve】



Using the new [Intersection Curve] command under the “Create” menu, pick 2 faces to create a curve at their intersection.



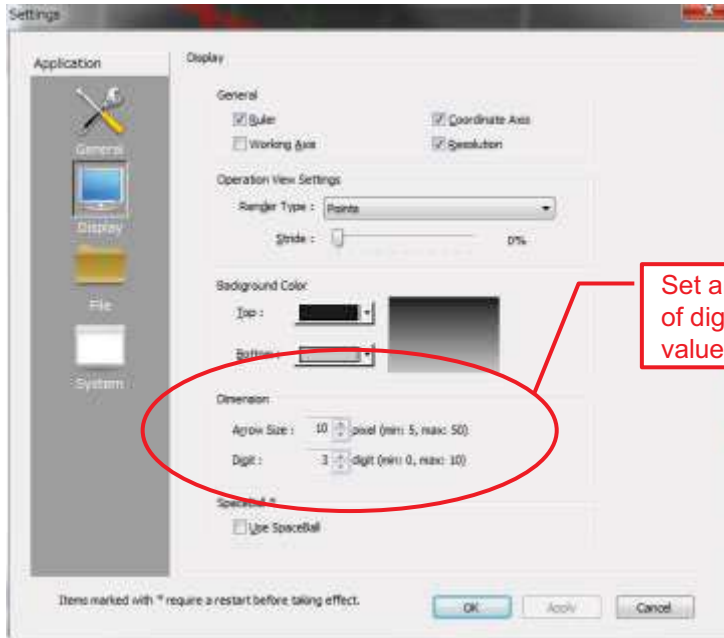
Creates curve at intersection



08. System Settings

【 Menu: Options/System Settings 】

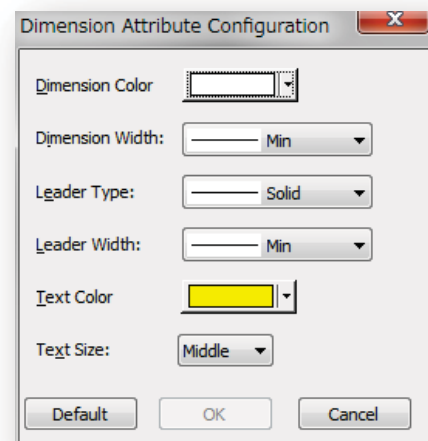
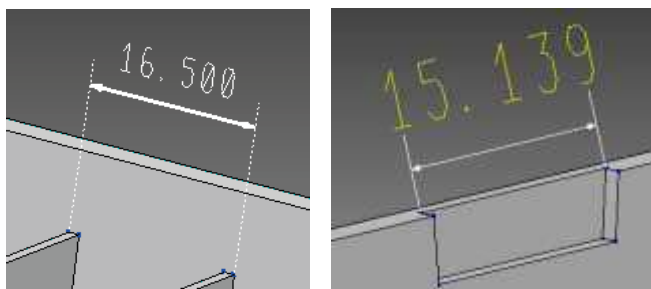
The System Settings' user interface has been modified to use that of PolyMend.
New features include Language and Dimension Display settings.



09 Measurement Attribute Configuration

【 Menu: View/Dimension Attributes 】

You can modify the default setting for various attributes used in Measurement menu. Modify each attribute configuration and press the [Default] button. All arrows created thereafter will use new attributes.



More Information

- For the list of latest supported 3D model formats, visit <http://www.armonicos.co.jp/english/products/spgate/fc-io.html>

Contact Information

- TEL : 053-459-1005
- e-mail : spgate@armonicos.co.jp
- URL : <http://www.armonicos.co.jp/english/products/spgate/index.html>

Development

Armonicos Co., Ltd.
Act Tower 21F, 111-2 Itaya-machi, Hamamatsu, Shizuoka, 430-7721 JAPAN
TEL:(+81)53-459-1000 FAX:(+81)53-459-1155
<http://www.armonicos.co.jp>

