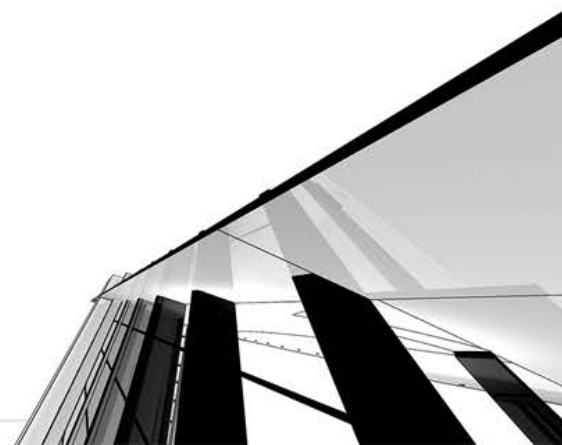




# spGauge 2018.1

## Upgrade News



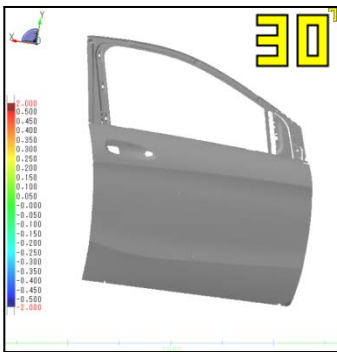
# Improved View Operation Response Time

Major improvement in the view operation response due to acceleration of drawing of polygon mesh.

**Menu: [Edit]-[System Setting]**

Number of polygon vertices that will result in 15 FPS (See Note) or less.  
(Simple Display is disabled)

Graphics Card	Conventional (Versions up to 2017.2)	2018.1
Quadro K5000	700,000	24,000,000
Quadro K1100M	600,000	8,000,000
Integrated	400,000	1,000,000



Note: FPS stands for Frames Per Second. It is the number of frames processed per second.

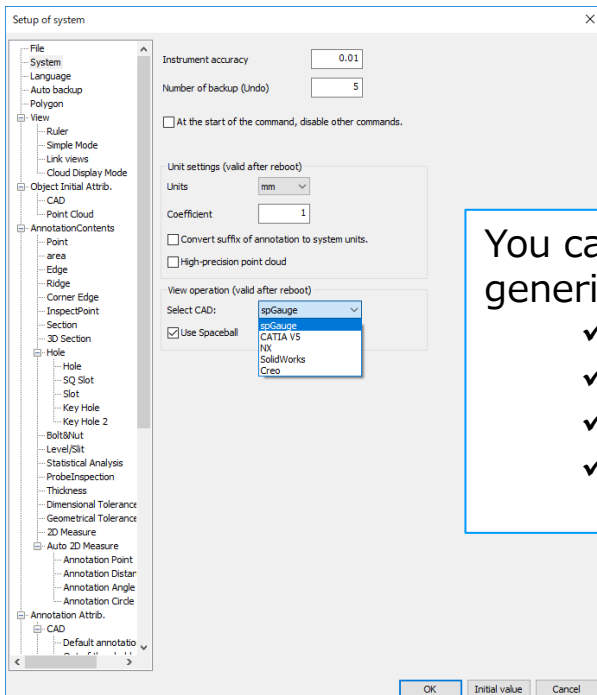
Due to the acceleration of polygon mesh drawing, Now there is no need to thin-out for the sake of response time.

From version 2018.1 onward, all polygon mesh are displayed even in the simple display mode.

## Generic CAD like View Operation

Added an option in the [View operation] settings to allow selection of a view operation like that of a generic CADs (CATIA V5/NX/SolidWorks/Creo).

**Menu: [Edit]-[System Setting]**



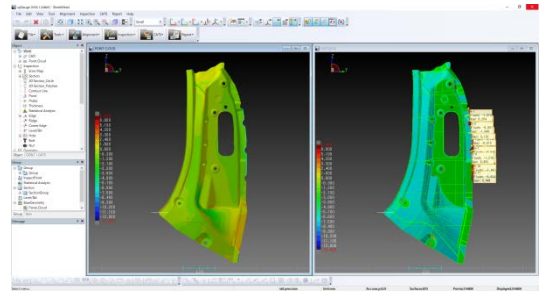
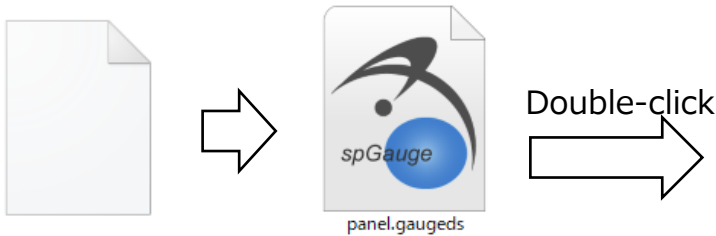
You can select from the following generic CADs:

- ✓ CATIA V5
- ✓ NX
- ✓ SolidWorks
- ✓ Creo

# Launch and Import Associated Files

By associating the gaugeds file and gaugedsz file extension to spGauge.exe application, a gaugeds file can now be double-clicked and opened in spGauge.

**Menu: None**



Use the Windows' feature to associate files to spGauge.exe.

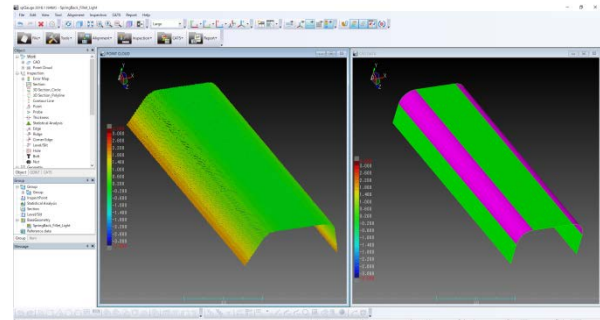
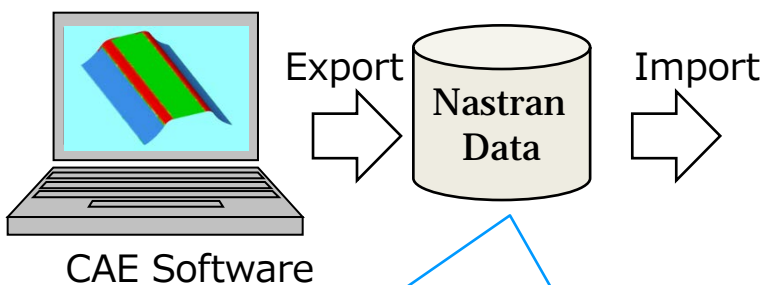


spGauge 2018.1 is launched, and the double-clicked file is imported.

## Importing Analysis Mesh File

Now you can import Nastran's structural data as point cloud data.

**Menu: [File]-[Import]-[Point Cloud]-[Nastran]**



spGauge

### Supported input data formats

- ✓ Small field format.
  - ✓ Large field format.
- \*Note: Free format is not supported

### Supported data structures

- ✓ GRID (Node)
- ✓ CTRIA3 (triangular shell elements)
- ✓ CQUAD4 (quadrilateral shell elements)

### Supported units

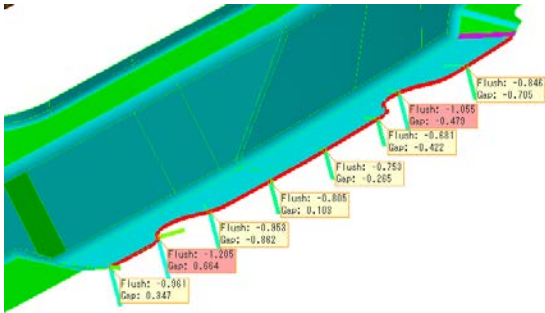
- ✓ SI unit (mm etc.)

# Enhanced Trimmed Edge Inspection

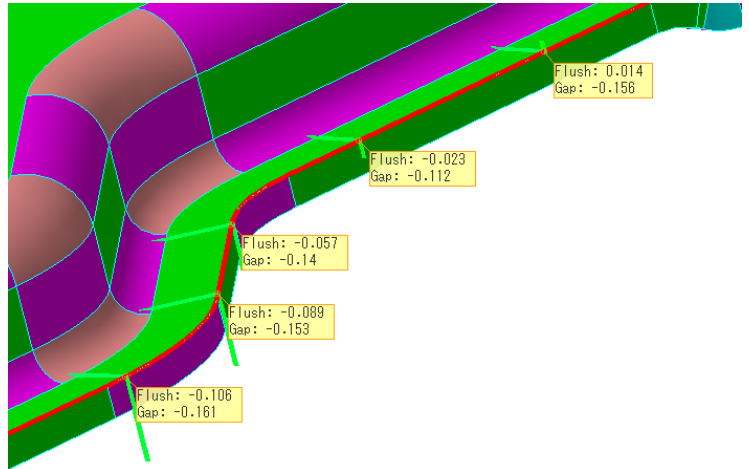
Now you can define trimmed edge inspection for edge of a solid.

**Menu:** [Inspection]-[Edge]-[Define]

Conventionally  
(Versions up to 2017.2),  
free edges of a sheet only.



From version 2018.1,  
a solid's edge can also be specified.



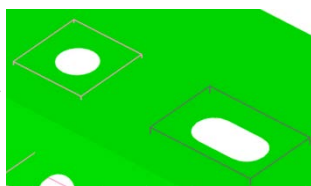
The system will automatically recognize  
and select the edges connected  
smoothly.

## Hole Inspection Enhancement

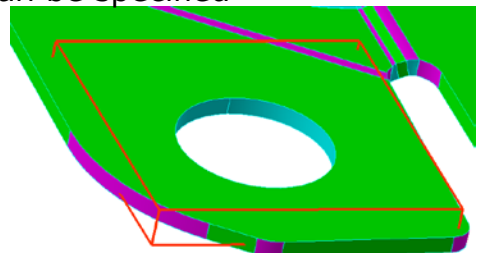
Now you can define hole inspection for edges of CAD data of a solid.

**Menu:** [Inspection]-[Hole]-[Define]  
[Inspection]-[Hole]-[Recognize Manually]  
[Inspection]-[Hole]-[Register Manually]

Conventionally  
(Versions up to 2017.2),  
hole shapes of a sheet  
only.

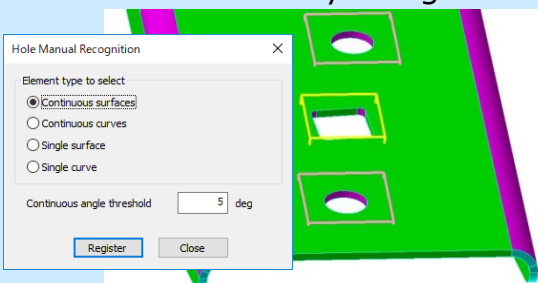


In version 2018.1, **holes of solid shape**  
can be specified



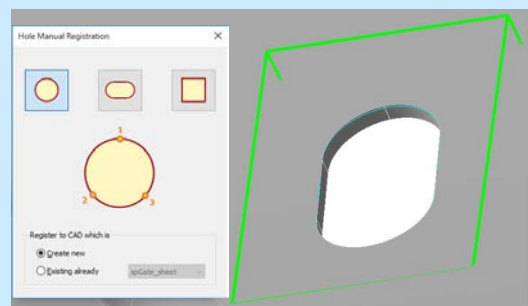
### Manual Recognition

Specify simple conditions,  
and additionally register hole shapes that  
were not automatically recognized.



### Manual Registration

Register hole shapes by  
specifying composition points

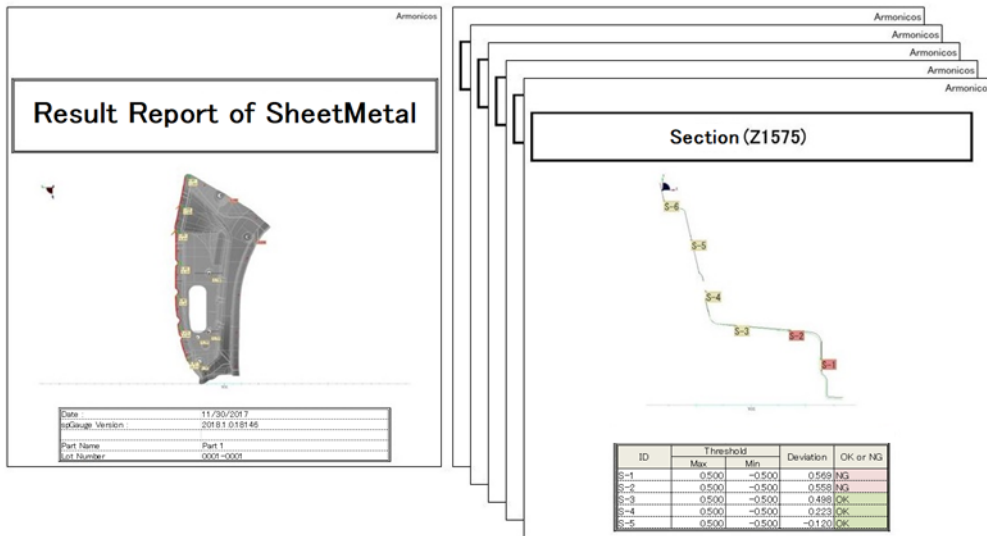


# Export New Report

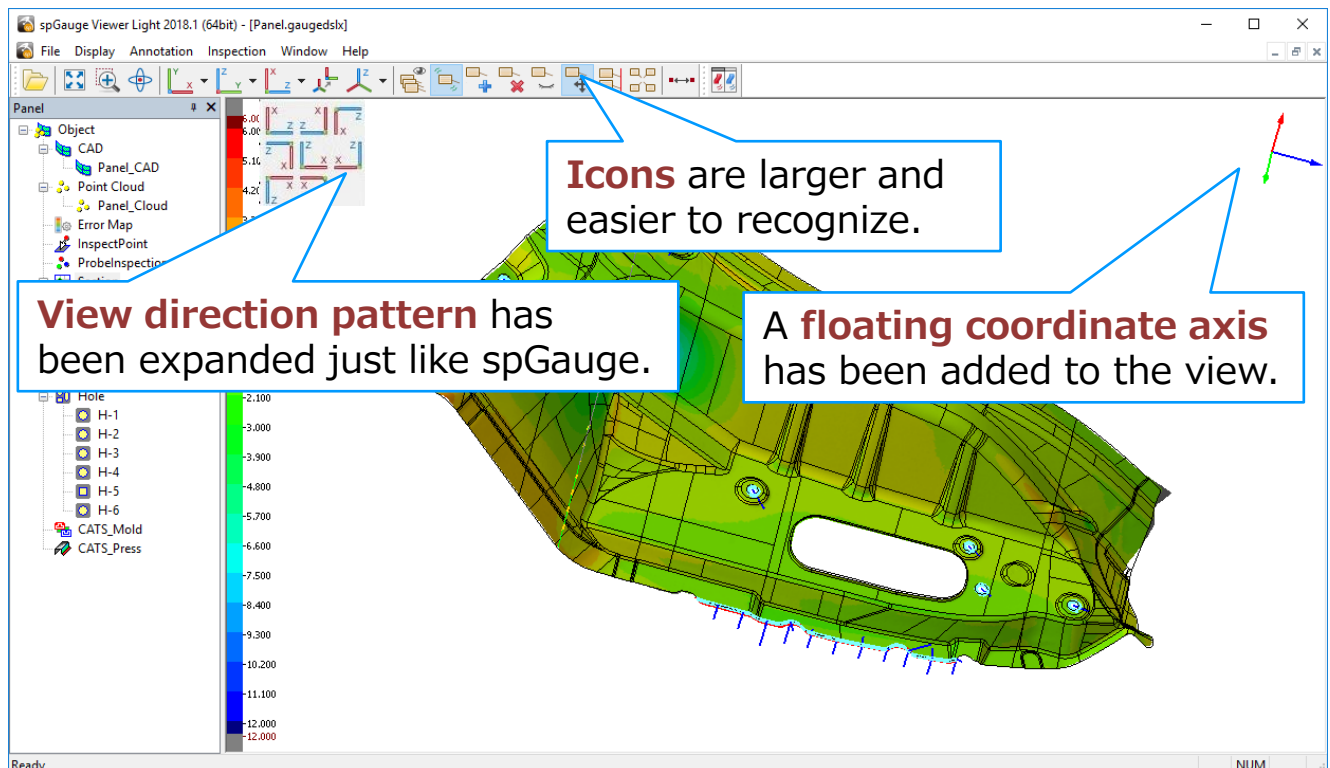
Now you can create a “captured images & result list” report for each inspection item.

**Menu: [Report]-[Result Report]**

- ✓ For each inspection item, create a front page and inspection result in **Microsoft Excel** or **Adobe PDF** file format.
- ✓ In Excel file, **spGauge Viewer Light** data can be pasted automatically.

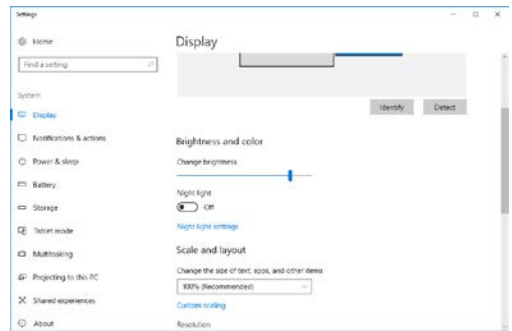


## spGauge Viewer Light



## ✓ High DPI Support

Fixed to display the dialog correctly, so that even when the text size in the Windows display settings is set to something other than 100%.

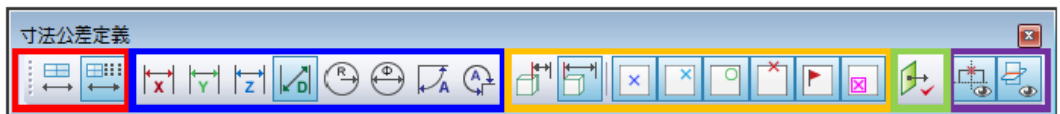


## ✓ Improved Dimensional Tolerance

~2017.2



**2018.1**



**Type**   **Items**   **Location**   **Reference**   **Elements**   **View**

## ✓ Updated Supported Versions of Office

- Export to Office 2003 is no longer supported, instead Office 2013 and 2016 are now added as part of the supported versions.
- Latest supported versions: 2007, 2010, 2013, and 2016.

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**Developer : Armonicos Co., Ltd.**

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