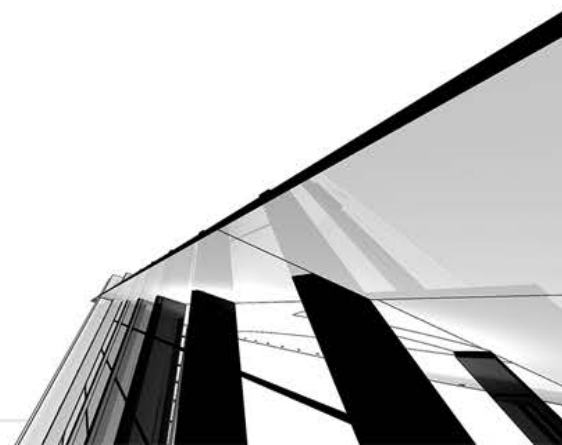




# spGauge 2017.2

Upgrade News

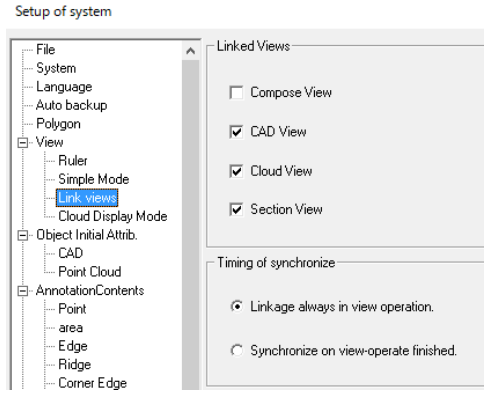


## View Synchronization

Menu: [View]-[Link Views]  
: [Edit]-[System Setting]

You can now specify which views to synchronize during the operation, in System Settings.

You can also choose to synchronize only at the end of a view operation, in order to enjoy a more nimble view operations.

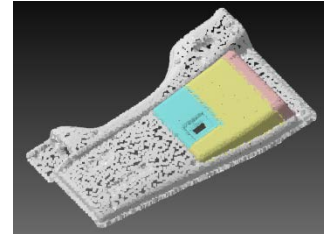


## Simple Display Mode

Menu: [View]-[Simple Display Mode]

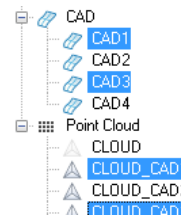
There is no longer a need to abbreviate CADs because the view drawing of CADs has accelerated.

By increasing the size of each point, it's become easier to tell the shape even when point cloud is abbreviated.



## Multiple Selection in Object Tree

When there are multiple items on the tree, it used to take time to select an item or display the context menu, but that is solved in this version.



# Improved Process Speed

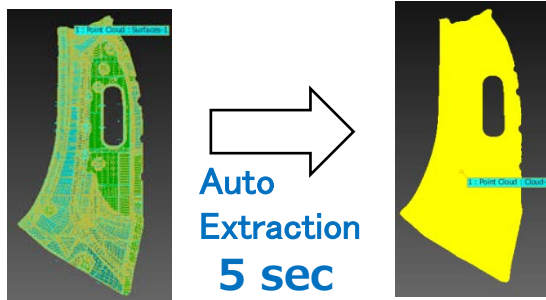
## Accelerated Surface Specific Selection

Menu: [Alignment]-[Unification Fit] Auto Extraction



Point cloud selection by surface specification

Selection of point cloud vicinity is made faster by selecting CAD surface.



CAD (870 Surfaces)

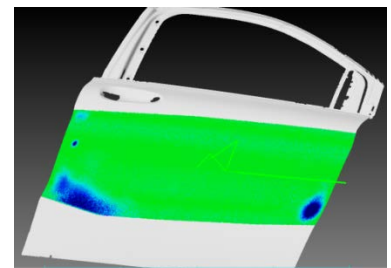
Polygon Mesh (Approx. 300 thousands vertices)

## Accelerated Deformation Evaluation (Grindstone Inspection)

Menu: [Inspection]-[Deformation]

Grindstone Inspection (Cylinder/Cuboid/2D Section)

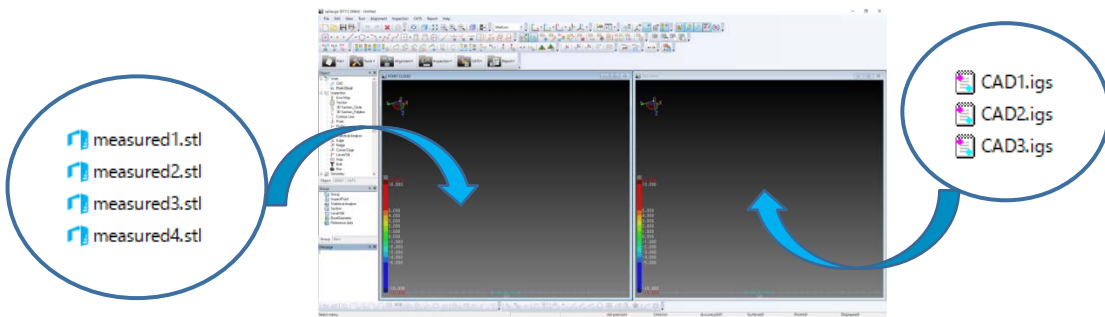
is twice as faster than when the deformation evaluation feature was introduced in version 2017.1.



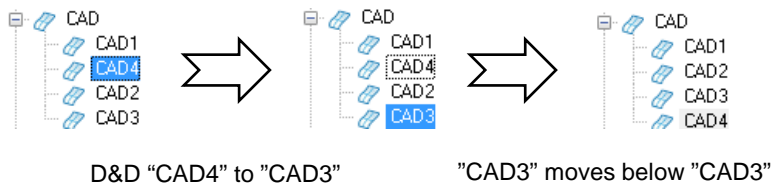
# Reinforced Drag & Drop Operations

**Menu: [File]-[Import]-[Point Cloud]  
: [File]-[Import]-[CAD Data]**

Multiple files with the same file extension can be dragged & dropped to the spGauge view screen to be imported.



You can change an object tree's order sequence, by dragging & dropping a tree item within the object tree's CAD or point cloud group.

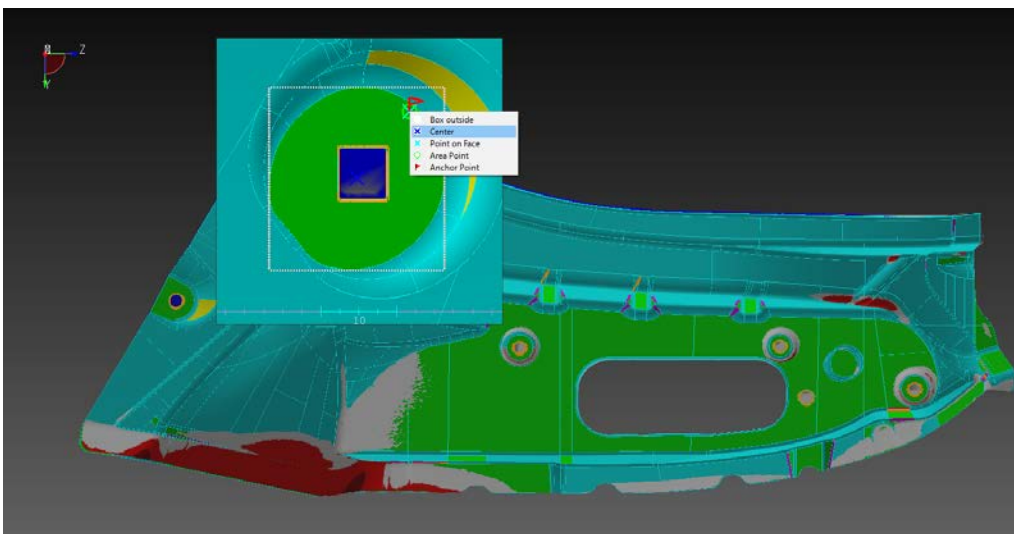


## Refined Snap Zoom

**Menu : Any command involving a pick selection**

[Alt+Right Pick]: A new "snap zoom window" appears at the cursor position. You may run other regular commands within this window. To close this Snap Zoom window, simply trigger Alt + Right mouse click again.

Contrasting to the previous versions, the snap zoomed window is fixed and no longer move synchronously with the mouse cursor. This will make selection operation within the snap zoomed window easier. Note: You can move the snap zoomed window using Alt + Right drag.



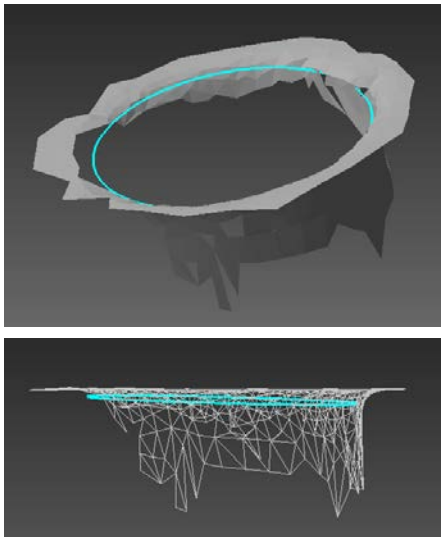
# Improved Hole Extraction Accuracy

Menu: [Inspection]-[Hole]-[Define]

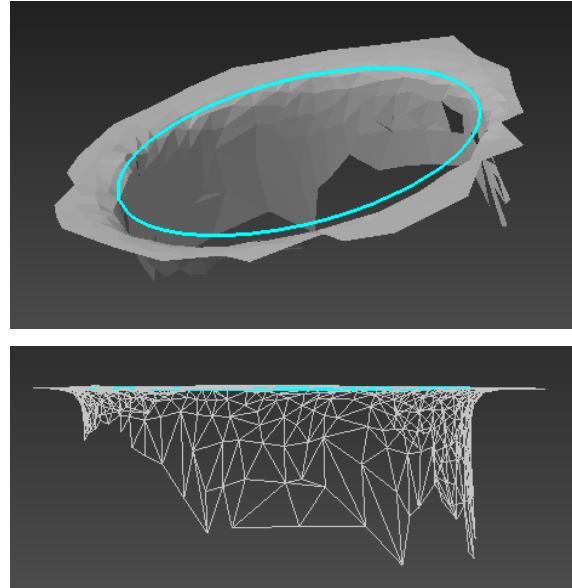
: [Inspection]-[Section]-[Set Condition & Inspect]

The accuracy of extracting holes from point cloud has improved. Conventionally, when scanned point cloud goes deep inward a hole, the extracted hole is also created in the same inward location. But now it has improved.

**Conventionally**



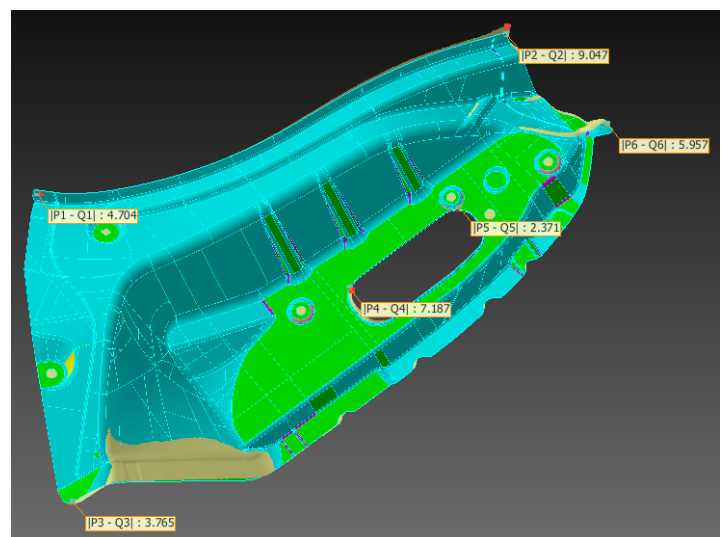
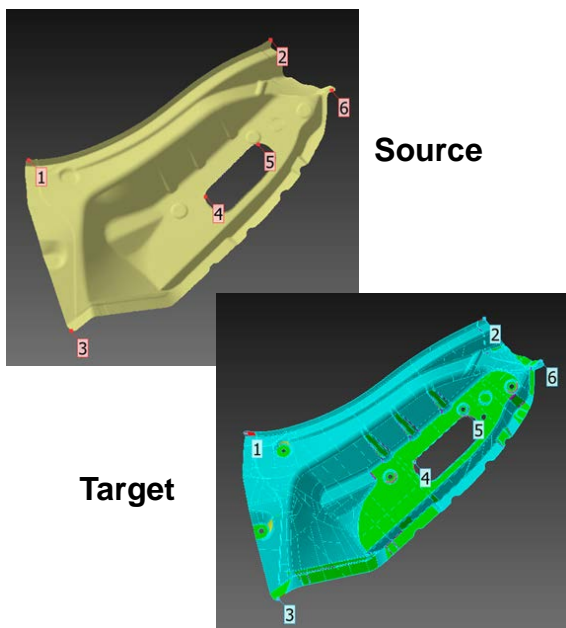
**2017.2**



## [Unification Fit] Display Result Annotation of Multiple Points

Menu: [Alignment]-[Unification Fit]

After executing Unification Fit's [Loose Fit]-[N Points], the distance between points is shown in the view using an annotation. This annotation is removed when the unification fit command ends.

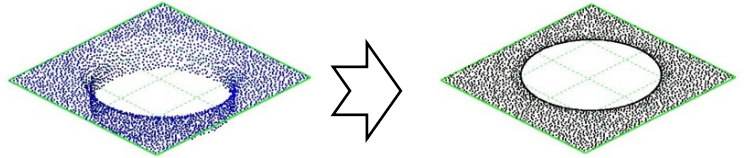


## Other Feature Enhancements

### ➤ Point Cloud Projection Feature

#### ➤ **Menu: [Tool]-[Point Cloud Tool]-[Projection]**

- Added a feature to project point cloud to a CAD surface.



### ➤ Feature to Create Matrix from Position

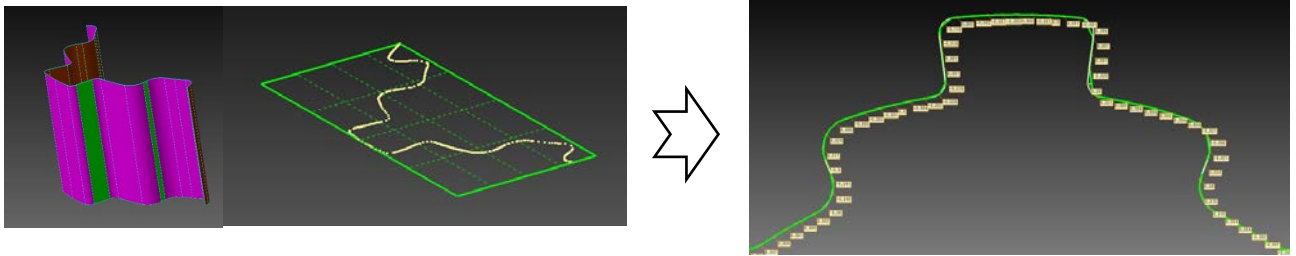
#### ➤ **:< Item>-<Position>-<(Target Object)>-<(Position Object)>,[Create Matrix]**

- You can now create matrix from initial position of the selected Position Object's initial position.

### ➤ Cross Section Inspection of Point Cloud with no Thickness

#### ➤ **Menu: [Inspection]-[Section]-[Set Condition & Inspect]**

- Now you can create and inspect section from point cloud with no thickness, such that would be on a plane.



### ➤ Macro-Auto Inspection Point Import

#### ➤ **Menu: [Tool]-[Macro-Auto] / [Inspection]-[Point]-[Import]**

- [Inspection]-[Point]-[Import] menu can be registered by Macro-Auto.

### ➤ Improved Auto Backup

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

- Improved the periodic auto back up mechanism.

### ➤ Clip View: Area Specification While a Command is Running

#### ➤ **Menu: [View]-[Clip View]**

- Now you can specify an area even while a command is running (with a few exception).

### ➤ Added CAD & Point Cloud Object Default Attribute Settings

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

- The default value of attributes set as spGauge's object after importing CAD or point cloud, can now be specified in the system settings.

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