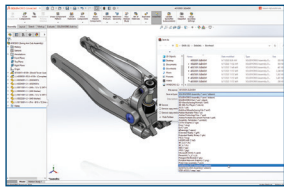# 3S SOLIDWORKS

3DEXPERIENCE

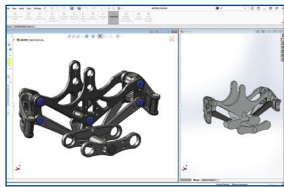# WHAT'S NEW IN 3DEXPERIENCE® SOLIDWORKS®

1 Previous Release Compatibility

- Collaborate with suppliers using older versions by saving your **3D**EXPERIENCE SOLIDWORKS designs as older versions.
- Save parts, assemblies, and drawings as **3DEXPERIENCE** SOLIDWORKS versions that are up to two years prior to the latest release.

Benefits

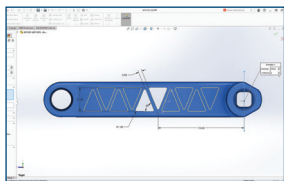**Collaborate with other users, even if they are using an older version of SOLIDWORKS.**

2 Assemblies

- Simplify your large assemblies faster by applying rules when you defeature your model using the Silhouette option.
- Represent post-assembly machining operations in SOLIDWORKS with Insert Assembly into Part, using the existing **3D**EXPERIENCE platform data model.
- Simplify assembly STEP file import with the ability to filter out unwanted components on the fly.

Benefits

Employ new assembly modeling workflows to speed up large assembly design, documentation, and collaboration.
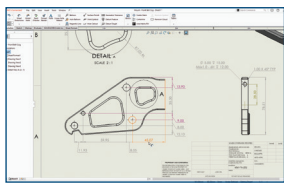
3 Parts and Features

- Speed up sketching with a new option to preview and edit a dimension as soon as you select one or more entities.
- Create bidirectional, symmetric patterns with the Symmetric option for Linear Pattern.
- Display the unit of measurement as a custom property in notes and tables.

Benefits

Speed up sketching, and more easily capture and communicate design intent while reducing design effort.
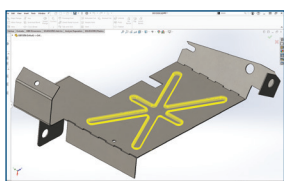
4 Drawings and Detailing

- Clean up dangling dimensions more efficiently by reattaching them to the proper reference points.
- Detail drawings faster with improved chain dimensioning alignment and adherence to drawing standards.
- Exclude hidden sketches from DXF™ Flat-Pattern with a new option.

Benefits

Create drawings that communicate designs more clearly with standardized chain dimensions layout, efficient dimension reattachment, and reduced DXF export post-processing.
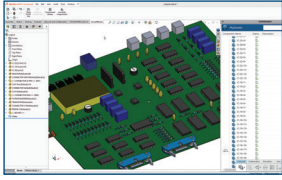
5 Sheet Metal

- Adhere to manufacturing machining practices by providing a Normal Cut option for slots when tabs are created at an angle.
- Automatically propagate slots to all instances of a tab that intersects a specific part.
- Eliminate the need for form tool creation with the option to create a stamp/form feature on the fly using just Sketch.

Benefits

Reduce sheet metal manufacturing bottlenecks by adhering to sheet metal manufacturing standards.
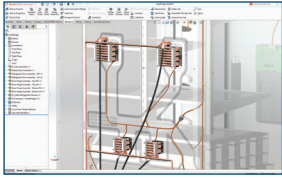
3S DASSAULT SYSTEMES

6 ECAD-MCAD Collaboration in the Cloud

- Collaborate on a common virtual twin via the **3D**EXPERIENCE platform: MCAD users of SOLIDWORKS with ECAD users of OrCAD and Allegro®.

- Standardize ECAD-MCAD data exchange by supporting the IDX 3.0 file format in CircuitWorks™ on the **3D**EXPERIENCE platform.

Benefits
Collaborate on MCAD and ECAD more easily with simplified workflow and standardized ECAD-MCAD data exchange.
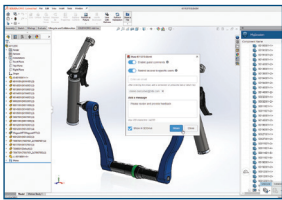

7 Routing

- Improve performance using a new option to update only the current 3D electrical route.

- Improve 3D performance with the ability to exclude selected parts from 3D, while including all parts in the BOM and Reports.

- Reduce additional costs associated with the use of obsolete items by seamlessly sharing up-to-date component libraries with everyone on the **3D**EXPERIENCE platform.

Benefits
Handle more complex electrical routing scenarios with new options for flattening, reorienting, and displaying wires and connectors.
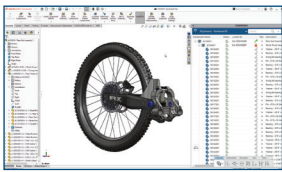

8 Share and Markup in the Cloud

- Seamlessly share your designs with anyone from within SOLIDWORKS, whether they are internal or external to your organization.

- Get immediate feedback through comments and markups attached directly to your designs.

Benefits
Enable recipients to access the shared files in a browser, with no need to install the 3DEXPERIENCE platform.
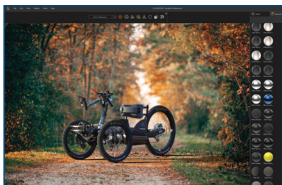

9 Cloud Data Management

- Organize SOLIDWORKS resources more efficiently by setting up bookmarks to access SOLIDWORKS File Locations from the **3D**EXPERIENCE platform.

- Communicate design changes more easily by enabling users to add revision comments on multiple revised components while saving to the **3D**EXPERIENCE platform.

Benefits
Securely store and manage SOLIDWORKS resources in the cloud, and automatically track the revision history of SOLIDWORKS drawings.

10 SOLIDWORKS Visualize

- Select appearance types and optimize their parameters more easily with a simplified interface.

- Adjust textures and texture maps for parameters, with greater control and fidelity.

- Combine normal and displacement maps and apply vector displacement.

Benefits
Experience easier optimization and more advanced real-life rendering capabilities.

Our **3D**EXPERIENCE® platform powers our brand applications, serving 12 industries, and provides a rich portfolio of industry solution experiences.

Dassault Systèmes, the **3D**EXPERIENCE® Company, is a catalyst for human progress. We provide business and people with collaborative virtual environments to imagine sustainable innovations. By creating virtual twin experiences of the real world with our **3D**EXPERIENCE platform and applications, our customers can redefine the creation, production, and life-cycle-management processes of their offer and thus have a meaningful impact to make the world more sustainable. The beauty of the Experience Economy is that it is a human-centered economy for the benefit of all—consumers, patients, and citizens. Dassault Systèmes brings value to more than 300,000 customers of all sizes, in all industries, in more than 150 countries. For more information, **visit www.3ds.com**.

3DEXPERIENCE®

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