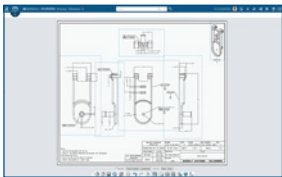


# WHAT'S NEW IN THE SOLIDWORKS® BROWSER-BASED ROLES

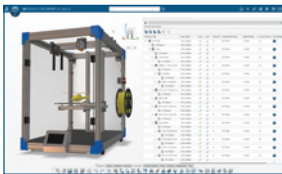


## 1 Versatile Definition Workflows

- Utilize 2D and 3D definition workflows – based on your needs, with the new 2D authoring and dimensioning capabilities.
- Seamlessly add views, dimensions, and tolerances directly within the 2D drawing environment, eliminating the need to switch to 3D for annotation.
- Automatically generate 3D annotations and views, ensuring consistency and accuracy across both forms of definition.

### Benefits

Break down the barrier between 2D and 3D with a single source of truth, combining the benefits of model-based definition with the ease of 2D drawings.

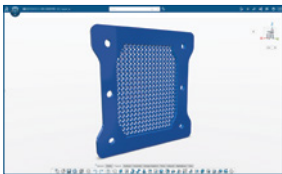


## 2 Efficient Assembly Management

- Quickly assess the status and states of assembly components in a single tool with the session information panel.
- Access vital details such as save status, lock status, revision, and maturity status for every component.
- Easily verify that you're working with the most up-to-date components, ensuring accuracy and collaboration within your design workflow.

### Benefits

Check the status of components at a glance and take control of your data management.



## 3 Design Lighter and Stronger Parts

- Design lighter and stronger parts that are optimized for 3D printing by harnessing the power of Lattice Designer.
- Evaluate lattice geometry with the interference detection tool, allowing you to identify and resolve potential interferences to ensure design integrity.
- Leverage Print3D capabilities and export lattice geometry to STL format to prepare your parts for 3D printing.

### Benefits

Create lighter and stronger parts optimized for 3D printing with Lattice Designer.



## 4 Design for a Sustainable Future

- Easily transfer models from 3D Creator to Eco-Design Engineer through simple drag and drop.
- Perform comprehensive life cycle assessments within Eco-Design Engineer to evaluate the environmental footprint of your designs.
- Choose the most sustainable options throughout the design process to have an enormous impact on product sustainability.

### Benefits

Evaluate environmental impacts and compare the sustainability of design alternatives.

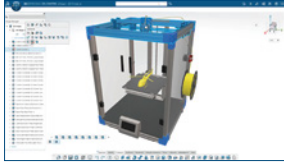


## 5 Create Complex Freeform Geometry with Merge

- Unlock the potential to create intricate and complex freeform geometry in your designs with the Merge command.
- Merge separate subdivision surfaces together, transforming them into a single cohesive design.
- Design individual surfaces separately, allowing you to dedicate attention to intricate details on small areas of the design.

### Benefits

Seamlessly combine multiple subdivision surfaces, enabling the creation of complex, organic shapes.



## 6 Easily Identify Lock Status

- Quickly identify the lock status of each physical product with clear lock symbols in the Design Manager.
- Easily differentiate between components locked by you and those locked by others, and hover over the lock icon to see who holds the lock.
- Send a push notification to another user from the context menu to ask them to unlock a specific component or assembly.

### Benefits

Quickly identify the lock status of physical products and send unlock requests to other users.

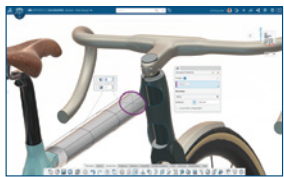


## 7 Create Professional Drawings with Projection Views

- Create professional drawings that adhere to industry standards by utilizing both third-angle and first-angle projection views.
- Effectively communicate your design intent and specifications through accurate, standardized projection views.
- Save time and effort by leveraging predefined projection views, eliminating the need for manual adjustments and reducing the risk of errors.

### Benefits

Create professional drawings with industry-standard projection views.



## 8 Create User-Defined Subdivision Primitives

- Create a subdivision primitive from a sketch by extruding or revolving, providing a solid foundation for your freeform design process.
- Begin with a primitive shape that closely resembles your intended design, allowing you to focus on refining and detailing specific areas.
- Iterate through design variations more rapidly, exploring different shapes and forms while maintaining flexibility and control.

### Benefits

Achieve your desired design outcome with greater speed and precision by leveraging Extrude and Revolve Subdivision Primitives.



## 9 Define Mechanical Systems with Advanced Mates

- Define screw joints for lead screws, adjustment knobs, and threaded fasteners, ensuring precise representation of their functionality in your assemblies.
- Use the slide and roll curve mates to create a mate between a circular edge and a curve/edge.
- Create detailed virtual twin assemblies with connections between components that replicate real-world physics.

### Benefits

Achieve greater accuracy and efficiency in your designs, empowering you to create complex mechanical systems.



## 10 Optimize Design Session Performance

- Verify network connection, server connection, and more to optimize your design experience.
- Optimize your graphics performance and accelerate client-side interactions by leveraging GPU reporting in the System Status command.

### Benefits

Verify your internet connection to ensure the best possible design experience and easily reconnect in the event of a failed server connection with the new system status dialog.

to learn more about SOLIDWORKS, visit [www.metro-systems-des.com/solidworks](http://www.metro-systems-des.com/solidworks) or email [sales-des@metro-systems.co.th](mailto:sales-des@metro-systems.co.th)



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