# What’s New in SOLIDWORKS Education Edition 2017-2018

## SOLIDWORKS 3D Interconnect
- Open proprietary 3D CAD data directly into SOLIDWORKS including Creo®, CATIA® V5, Solid Edge®, NX™, and Inventor® and retain associativity to the original file.

**Benefits**
Work seamlessly with anyone and incorporate design changes dramatically faster.

## Improved Large Assembly Performance
- New Asset Publisher, Ground Mates and Magnetic Mates speed equipment layouts.
- Replace sub-assembly with multi-body part and maintain downstream references, replace missing references all at once.

**Benefits**
Speed design of large assemblies and layouts machinery and equipment.

## More Powerful Modeling Tools
- New Advanced Hole Wizard creates/reuses customized holes.
- Wrap Feature now for any surface; offset 3D curve on surface with multiple faces.
- Sheet Metal support for three-bend corners.

**Benefits**
Faster, easier modeling with fewer picks and clicks.

## Renderings and Animations with SOLIDWORKS Visualize
- SOLIDWORKS Visualize Professional now include in the Education Edition and Student* products installation.
- Import animations and motion studies.
- Map SOLIDWORKS camera navigation and hot keys.

*Not included in SDK.

**Benefits**
Simplified installation. Improved workflow between modeling, rendering, and viewing.

## Faster 2D Drawing Creation
- Reference and link to Bill of Material (BOM) table cell elements in annotations.
- Parametrically mirror drawing views without the model.
- Pre-defined layers.

**Benefits**
Simplified, faster drawing creation.

## Expanded Capabilities for Model Based Definition
- Compare geometry and 3D PMI between two revisions.
- Define DimXpert 3D PMI more easily for drafted parts.
- Export STEP 242 with 3D PMI to automate CAM and CMM.
- Attach multiple files to 3D PDF to build Technical Data Packages (TDP).

**Benefits**
Ease the transition from 2D drawings to model-based design (MBD).
7 ELECTRIFYING ELECTRICAL/ELECTRONIC DESIGN
- Electrical: automatic creation of schematic from a spreadsheet
- Electrical: compound parts and accessories

Benefits
Improve productivity for electrical design with expanded capabilities.

8 SIMPLIFYING DESIGN VALIDATION
- Simulation: display simulation results in SOLIDWORKS model; arc length control for nonlinear contact
- Plastics: Part Mass can be used in addition to gate temperature for gate freeze and pressure holding time determination
- Flow: Parametric Study now allows multi-parameter optimization

Benefits
Handle more use cases with expanded simulation and tackle more design scenarios with extended capabilities.

9 INTEGRATING DESIGN AND MANUFACTURING
- 3D Printing: import/export 3MF; import mesh data
- Costing: instant estimates from manufacturers via MySolidWorks Manufacturing Network

Benefits
Extending SOLIDWORKS capabilities for the manufacturing ecosystem.

10 IMPROVED DATA MANAGEMENT AND COLLABORATION
- SOLIDWORKS PDM: version overwrite; rollback with references; improved viewing
- SOLIDWORKS PDM Professional: Vault Database Replication
- eDrawings®: Augmented Reality (AR) for the Android™; 3D views and annotation views for assemblies; component descriptions; weld beads; undo/redo

Benefits
Collaborate at more levels and manage data more efficiently.

See the full range of SOLIDWORKS software for design, simulation, technical communication, and data management at www.solidworks.com/edulaunch.