3S SOLIDWORKS

3DEXPERIENCE®

SOLIDWORKS PRODUCT DESIGNER

OBJECTIVE

SOLIDWORKS® Product Designer is the core of the SOLIDWORKS **3D**EXPERIENCE® Design-to-Manufacturing portfolio. It provides innovative 3D design methods, cloud-based data and project management, and social collaboration for creating and managing parametric models.

OVERVIEW

SOLIDWORKS Product Designer is a comprehensive 3D CAD solution connected to the **3D**EXPERIENCE platform, on the cloud, that provides ease of use, innovative and powerful 3D modeling capabilities, combined with best-in-class, cloud-based Product Lifecycle Management tools. Unlike other CAD systems, SOLIDWORKS Product Designer delivers the best 3D modeling and Out-of-the-Box data and project management tools as well as social collaboration experiences.

BENEFITS

- **Single modeling environment**
  Allows for an agile and instinctive design process
- **Social and collaborative tools**
  Help harness the collective energy of a company and its customers and vendors
- **Easy access to database**
  Allows all team members to access the latest design data, yet with full device independence
- **Online database and cloud storage**
  Eliminates the risk of overwriting the work of others

CAPABILITIES

SOLIDWORKS Product Designer delivers a truly collaborative design environment that enables design teams, customers, and suppliers to communicate, collaborate, and develop products whenever they want and wherever they are located.

The **SOLIDWORKS Product Designer Role** includes:

- **Mechanical Design** app allows users to create parametric sketches, parts and assemblies. Users can also take advantage of direct editing capabilities to manipulate and modify 3D geometry working directly on their 3D CAD models. Being on the **3D**EXPERIENCE platform, users can leverage the full interoperability and compatibility between SOLIDWORKS xDesign, SOLIDWORKS Industrial Designer and SOLIDWORKS Product Designer apps, and the wide Dassault Systèmes **3D**EXPERIENCE portfolio of roles and apps, including SIMULIA, CATIA, ENOVIA and DELMIA.

- **Motion** app allows users to evaluate how a product will perform and move throughout its operational cycle with motion analysis. From preliminary motion design with 2D or 3D sketches with contacts, to a comprehensive motion verification of a 3D assembly, users will be able to optimize their designs by measuring forces and loads and using the data to correctly size motors and create the best mechanism for ensuring product performance, quality, and safety.
- **Sheet Metal** app allows users to create sheet metal components by designing in the bent and/or flattened state. It automatically creates flat patterns for manufacturing with bend compensation.
- **Drawings** app allows users to quickly create 2D drawings and communicate how their design has to be manufactured. Whenever a change occurs in their 3D model, all drawing views are automatically updated. Using these 2D CAD capabilities accelerates the product development process by significantly reducing design-to-manufacturing time, while decreasing costs and increasing productivity.
- **Material Definition** app allows users to create and edit materials to be applied on features, bodies and parts.
- **Design IP Management** app allows users to classify content in catalog and reuse it.
- **Collaborative Lifecycle Management** (native) app allows users to manage content lifecycle.
- **Bookmark** app allows users to classify content in folders.
- **Collaborative IP Management** app allows users to create, duplicate, delete, exchange, lock and manage content.
- **Data Setup** app provides ability to associate the valid resources (catalog, design tables, Excel files, and pictures) to be used by **3D**EXPERIENCE platform applications for a given Collaborative Space.
- **Exchange Management** app allows managing content exchanges across platforms.
- **Finders** apps (dedicated search apps) Manufacturing, simulation, product and systems data can be easily found using these dedicated apps which provide dedicated navigation capabilities.

3S DASSAULT SYSTEMES

REQUIREMENTS

SOLIDWORKS Product Designer requires two browser-based companion elements, fully transparent with zero overhead; the **3D**EXPERIENCE Business Innovation Role, a file management and social innovation solution; and the **3D**EXPERIENCE Industry Innovation Role, a data and project management and collaborative solution.

The **3D**EXPERIENCE Business Innovation Role includes:

- **3DDashboard** app allows for personalization and sharing of multiple dashboards for each user using the extensive and extensible widgets/apps catalog.
- **3DSwYm** app enables enterprise social collaboration via Communities that can consist of internal and external audiences.
- **3DPlay** (web) app enables design review through immersive visualization and animation of data stored in the **3D**EXPERIENCE platform.
- **3DSearch** app allows for search through any metadata or files stored in the platform.
- **6WTags**, an innovation unique to the **3D**EXPERIENCE platform, allows for quick and intuitive navigation and filtering based on Who, What, When, Why, Where and How.
- **3DMessaging** app allows users to chat with IM and collaborate in an engineering or social context.
- **3DPassport** provides a single sign-on to all applications that users have access to—regardless of whether they are browser-based or native clients.
- **3DCompass** is an intuitive, compass-like interface providing easy-to-use navigation to the user's applications.
- **3DDrive** app is easy to use for storing, syncing, sharing and previewing any file. It also allows light design review.
- **Additional productivity apps** include: *Calculator, Feed Reader, Mail, Globe Viewer, Media Links, Metrics Reader, Quick Links, Web Notes, Web Page Reader* and *Run your App*.
- **Storage.** 5GB of online data storage space per license is shared through the company platform.

The **3D**EXPERIENCE Industry Innovation Role includes:

- **3DSpace** app enables users to structure engineering collaboration via Collaborative Spaces while controlling other users' access to the data.
- **Collaborative Lifecycle Management** (web) app enables collaboration on shared data (on Collaborative Spaces), and enables creating, duplicating, deleting, exchanging, liking and managing content.

- **Collaborative Tasks** app enables users to easily organize, optimize, access and execute work with a simple "one-step" task creation that can reference files or existing objects already available in the **3D**EXPERIENCE platform.
- **Collaboration and Approvals** app provides rich business process services to enable collaboration between all users including tracking of issues raised and pending approval request, with interactive drill down charts.
- **Classify and Reuse** app enables users to access libraries of product content to classify and reuse.
- **Compare** app, an intuitive design app, enables users to compare any structured content.
- **Product Explorer** app enables users to explore the structure of a product.
- **Collaboration for Microsoft®** app enables immersive management of MS Office documents within the **3D**EXPERIENCE platform.
- **3DPlay** (native) app provides VR capabilities and enables design review through immersive visualization and animation of data stored in the **3D**EXPERIENCE platform.
- **Storage.** 25GB (including 5GB from Business Innovation) of online data storage space per license shared thru the company platform.

Powered by Dassault Systèmes **3D**EXPERIENCE platform, the **3D**EXPERIENCE Business Innovation and **3D**EXPERIENCE Industry Innovation roles provides a *Safe, Social, Connected, Informed* and *Structured* environment for design team leaders, project managers and other professionals who want to manage data on the cloud and collaborate without constraints.

Safe: Customer controlled access. Transparent cloud backup. Encrypted communication protocols. Data always safe—no overwrite, no loss of data.

Social: Integrated structured and unstructured collaboration tools enabling social innovation. Collaborate on product design or engage with your stakeholders early in product development.

Connected: Every user always connected to a single, common database. Access data anywhere, anytime, on any device. Review and markup models.

Informed: Choose from the widget library, Create and share Dashboards. Get the latest information about your product development. Always have access to your latest data.

Structured: Zero overhead data management - store and manage data across collaborative spaces, share information in communities. Find indexed data faster by using tags, custom search, etc.

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, provides business and people with virtual universes to imagine sustainable innovations. Its world-leading solutions transform the way products are designed, produced, and supported. Dassault Systèmes' collaborative solutions foster social innovation, expanding possibilities for the virtual world to improve the real world. The group brings value to over 220,000 customers of all sizes in all industries in more than 140 countries. For more information, visit **www.3ds.com**.

3DEXPERIENCE®

DASSAULT SYSTEMES | The **3D**EXPERIENCE® Company