3DEXPERIENCE®

TMS CADCentre SolidWorks in Scotland

SOLIDWORKS

SOLIDWORKS PDM

OBJECTIVE

SOLIDWORKS® PDM (Product Data Management) solutions provide an easy way for designers to collaborate on product designs without worrying about version control or data loss. They can store CAD models and supporting documents—anything from emails to images—in an indexed central repository that tracks versions and automates workflows. This reduces time spent searching for data and eliminates the duplication of effort.

OVERVIEW

SOLIDWORKS PDM is a mainstream data management system that stores and organizes engineering CAD data and other documents in a central vault that has a relational database to manage all the information about the files and references, users and group permissions, electronic workflow processes and more. SOLIDWORKS PDM is built into Windows® Explorer so users work in a familiar environment but with much more information and control.

SOLIDWORKS PDM uses an organized local cache where files are automatically retrieved from the central file server (Archive Server) and placed in the user's local cache on their hard drive. This vastly increases performance over opening and saving files on network shared folders. If a file needs to be edited, the user will check out the file which gives them rights access to it. After editing is complete, the file is copied back to the Archive Server via the check-in process. The check-in process automatically creates a new version of the file.

BENEFITS

- Saves time searching with a secure centralized location for all design documents and utilization of configurable search cards which make it easy to enter search criteria.
- Controls access to data so the right users have access at the right time based on where a file is in the approval process.
- Effective version control helps avoid rework and scrap caused by working from the outdated versions of 3D models and drawings .
- Enables remote design locations to receive real-time updates on design changes coupled with automatic notifications.
- Avoids having to spend time looking for or recreating documents that have been, moved, renamed, misplaced or mistakenly deleted by unauthorized users.

CAPABILITIES

SOLIDWORKS PDM Standard

SOLIDWORKS PDM Standard is the ideal data management application for smaller, single-site SOLIDWORKS customers that want an easy-to-use solution that can be easily upgraded to SOLIDWORKS PDM Professional when their needs change. SOLIDWORKS PDM Standard includes many of the high-powered features of SOLIDWORKS PDM Professional such as electronic workflow, built-in notification system and Windows Explorer integrated search.

Now SOLIDWORKS PDM Standard offers automated PDF creation. Users can convert a SOLIDWORKS Drawing file to PDF during a workflow transition using the same task technology used in SOLIDWORKS PDM Professional. A relationship between the SOLIDWORKS Drawing and the PDF is also created.

SOLIDWORKS PDM Professional

An all-inclusive application so there are no extra modules or database applications to purchase. SOLIDWORKS PDM Professional utilizes Microsoft® SQL Server Standard Edition to provide high performance and scalability and is included along with integrations SOLIDWORKS products, various third-party CAD systems and other authoring applications including Microsoft Office®.

DASSAULT SYSTEMES

SOLIDWORKS PDM Professional now has a much-improved process for handling various design change scenarios, including multiple design improvement approaches, engineering change requests and working with external design consultants. Using this new capability, users have the option of creating complete or partial (keeping existing references) copies of a file structure and placing them in a single or multiple folders. This enables editing of the copied or branched files while leaving the original files in their current state and permission status. If edits are approved, then new versions of the originals can be made. If edits are not approved, then the branched files can either be saved or deleted.

TAKE YOUR TEAM COLLABORATION TO THE NEXT LEVEL

With SOLIDWORKS® PDM Professional, it has never been easier to share design data with your colleagues whether they're across the aisle or across the globe.

Many companies today have dispersed groups of users located in various sites around the world. Often times the network speed between remote sites is slow which can result in users copying data to their local drives. This can lead to file reference issues and loss of version control. SOLIDWORKS PDM Professional provides the tools to enable those groups to work effectively in a single environment.

Depending on the level of collaboration required and the network speed between the sites, the following schemes are available:

- **No replication:** All sites are connected to a central database and file server. Files are automatically downloaded to the user's local cache from the central file server when needed.
- **File replication:** Replicated file servers are set up in remote sites where so users can interact with a file server on a Local Area Network (LAN) instead of a slower Wide Area Network (WAN). Files created at each site are then synchronized at given intervals or on-demand.
- **Database replication:** This provides the highest level of performance when there is extensive collaboration between multiple sites with poor connections. This solution utilizes the robust replication features available in Microsoft® SQL Server Enterprise edition and channels read operations directly to a local database rather than over a WAN.

Both SOLIDWORKS PDM Standard and SOLIDWORKS PDM Professional offer three license types:

- SOLIDWORKS PDM Standard/Professional CAD Editor is a Windows-based client for engineers and designers who work with SOLIDWORKS, DraftSight® and other popular design tools. It provides application-specific integrations to manage the complex file relationships and file properties. The CAD Editor client for SOLIDWORKS PDM Standard is included with each license of SOLIDWORKS Professional and SOLIDWORKS Premium 3D CAD software.
- SOLIDWORKS PDM Standard/Professional Contributor is a Windows-based client primarily for non-CAD users who create and edit other product-related files (Word, Excel) and participate in workflows.
- SOLIDWORKS PDM Standard/Professional Viewer is a Windows-based client for users who need to search, view and print documents. Users can also participate in workflows using a Viewer license which makes it a good fit for project leaders and manufacturing personnel who do not need to add or edit data.

SOLIDWORKS PDM Professional also has bundled licenses (PSLs) that can be accessed by any of the above client types. All licenses allow users to participate in electronic workflow processes. In addition, users can access data via the browser-based UI when traveling or are away from the main office.

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