DISTRIBUTED DATA MANAGEMENT

Storing, safeguarding, and serving up the information you need most
THE ELECTRONIC DATA AN ORGANIZATION CREATES AND NEEDS TO ACCESS COMES IN MANY FORMS.

At the lowest level, there is the typical file data such as documents and spreadsheets. Then there is the data about the data, often termed metadata. This could be part numbers, descriptions, and authors. On top of this there is processes data—project information, email correspondences, even the 3D data contained in CAD files that could be very useful if it was easy to access.

Then there’s the most challenging data to capture and reuse which is the kind that has never been committed to an electronic format. It resides either on paper or in the minds of employees. Thus, the challenge that organizations face is how to simply and logically capture, organize, and federate all this data across departments and to external organizations.

Typically, there is a central Enterprise Resource Planning (ERP) system that holds much of an organization’s data regarding its finances, personnel, and Stock Keeping Units (SKUs). In addition to ERP, separate point applications may exist to handle specific departmental needs.

SOLIDWORKS® Distributed Data Management (DDM) tools can organize all this data so it is easy to access across many disciplines and departments. It also makes it easy to capture non-electronic data and complex electronic data such as 3D shapes.
DISTRIBUTED DATA MANAGEMENT PORTFOLIO

The SOLIDWORKS product portfolio for DDM consists of purpose-built applications from simple Product Data Management (PDM) geared for CAD users to advanced data management and searching platforms.

SOLIDWORKS PDM

Centralizes the storage of users’ engineering data and related files yielding the following benefits:

- Secure repository for fast information retrieval
- Version control for both minor changes and major revisions, helping prevent data loss
- Integrated workflows that automate the design and approval process for more efficient review and release of final designs
- Implemented in a fraction of the time required by other product data management solutions

With SOLIDWORKS PDM, users can dramatically reduce the time they spend searching for parts, assemblies, and drawings. As part of the SOLIDWORKS Design to Manufacturing Process Solution covering design, simulation, inspection, technical communication, electrical/electronic design, and data management, SOLIDWORKS PDM will help users drive design reuse and manage the overall product development process.
“We benefitted from SOLIDWORKS PDM almost immediately because our work takes less time and our customer enjoys substantial efficiencies on the back end.”

— Martin Staric, R&D Manager, J&J Design

SOLIDWORKS MANAGE

SOLIDWORKS Manage is an advanced data management system that extends the global file management and application integrations enabled by SOLIDWORKS PDM. It is essential to DDM in the following ways:

Project Management

SOLIDWORKS Manage provides critical information to help teams focus on important tasks and provides an overview of resource capacity for better planning and utilization.

- Manage project stages, timelines, and milestones.
- View resource utilization and capacity.
- Attach items, files, and list deliverables.
- Utilize user tasks and timesheets to track progress.

Item Management

SOLIDWORKS Manage brings together, in one place, all components required for product definition, whether represented by a CAD model, document, or database-only items.

- Create, edit and compare Bills of Materials (BOMs) using items and files.
- Automatically or selectively create items for SOLIDWORKS configurations.
- Drive SOLIDWORKS drawing BOMs and item numbers.

Process Management

SOLIDWORKS Manage streamlines business processes, automates document creation, and brings together all involved stakeholders with new products, from sales and marketing to production and support.

- Configure states and decision points for all types of business processes.
- Attach affected items and files and enable ad hoc approvers and user tasks.

Dashboards and Reports

SOLIDWORKS Manage provides instant access to critical information in an easy-to-consume format for better decision making.

- Create interactive graphical dashboards to display critical information.
- Configure reports to company standards and publish automatically or on demand.
EXALEAD ONEPART

EXALEAD OnePart is a business discovery application that accelerates reuse of parts and leverages past designs, specifications, standards, test results, costing, and all related documentation. This enables engineers to gain rapid visibility into information hidden anywhere inside the organization.

Key Capabilities

Searchability of parts, assemblies, drawings, documents, images in more than 200 formats:

- Access to multiple data sources, including file systems, SOLIDWORKS PDM Professional, ENOVIA SmarTeam®, ENOVIA Designer® Central, and other PDMs, ERPs, and databases
- Full-text search with auto-completion of user queries; advanced search; and dynamic and disjunctive faceted search
- 3D mechanical feature mining (locating parts based on holes, pads, grooves, and other characteristics)
- Part discovery through 3D shape similarity
- Analytics view with clickable, real-time charts, allowing for unprecedented insight into data
- Automatic grouping of identical files
- User tagging of parts and documents for easy retrieval and lightweight workflow
- Multi-lingual user interface in English, French, German, and Japanese
- Declarative, audited security mechanisms ensuring that users see only the content they are entitled to see

Customer Benefits

Decrease duplicate part proliferation and increase new product development agility:

- Leverage past knowledge to enhance products.
- Reuse proven and qualified designs and parts.
- Make decisions based on parts-related documentation.
- Reuse 2D/3D assets from legacy data immediately.
- Repurpose past designs hidden from view.
- Speed ramp-up time for new projects.

Improve Quality and Decrease Risk

- Avoid creating duplicate designs and parts.
- Avoid increasing costs to qualify and manufacture existing parts.
- Accelerate downstream release processing and logistics.
- Decrease redundant inventory and support.
- Quickly identify existing alternative parts.
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Our 3DEXPERIENCE® platform powers our brand applications, serving 12 industries, and provides a rich portfolio of industry solution experiences.

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