

THE SOLIDWORKS CONNECTOR ON THE 3DEXPERIENCE PLATFORM

SEAMLESS AND SIMPLE



KEEP **PDM**
SIMPLICITY



WHILE
GAINING **PLM**
BENEFITS

UNLOCK THE VALUE OF SOLIDWORKS DATA ACROSS THE ENTERPRISE

If you are using SOLIDWORKS®, adding the **3DEXPERIENCE**® platform with ENOVIA® business applications yields powerful rewards. Sharing product data and information in real-time across the enterprise makes for smarter and faster decisions. Bridging social and structured collaboration generates better ideas and drives innovation. Implementing enterprise-wide engineering processes improves communication and productivity. And, connecting resources, tasks and deliverables through deliverables-based project management identifies risks and accelerates time to market.

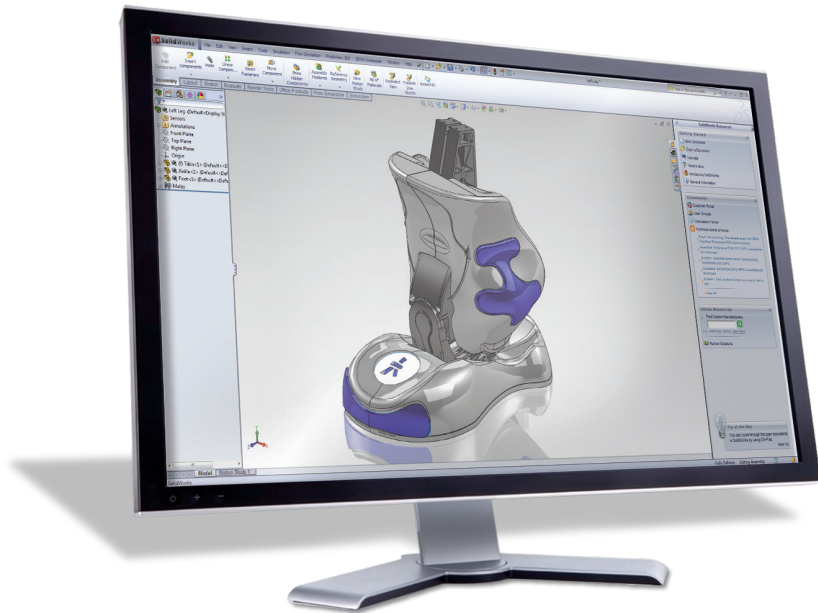
The **3DEXPERIENCE** platform is a business platform for innovative collaboration and connects a suite of data-driven apps to enable enterprises to compete more effectively in today's experience economy. ENOVIA on the **3DEXPERIENCE** platform provides applications to define and execute business processes including Product Data Management (PDM) and Product Lifecycle Management (PLM). Many product development teams have PDM systems to track, manage and control access to design data. PDM offers numerous benefits over basic file sharing practices such as e-mail or ftp. However, more and more organizations realize that PDM is necessary, but not sufficient, to significantly improve their efficiency and achieve business goals. They also need the benefits of PLM to improve their engineering and business processes. With the **3DEXPERIENCE** platform and ENOVIA, designers are able to preserve their existing work paradigms and control of design IP within their existing system, while enjoying the productivity gains and benefits of PLM.

For designers, the solution is the SOLIDWORKS Connector on the **3DEXPERIENCE** platform. Built by the same developers who created SOLIDWORKS PDM Professional, the SOLIDWORKS Connector on the **3DEXPERIENCE** platform provides a user experience virtually identical to the SOLIDWORKS PDM user experience, ensuring the continuation of current design and data management practices. SOLIDWORKS users find the familiar interface and intuitive functions key benefits for moving to the **3DEXPERIENCE** platform and ENOVIA.

This eBook describes the benefits of moving from CAD-focused PDM to PLM capabilities using the **3DEXPERIENCE** platform with ENOVIA, and it details how the **3DEXPERIENCE** platform and ENOVIA support the designer's needs and unlock the value of SOLIDWORKS data for the entire enterprise.

Q WILL CENTRALIZED
MANAGEMENT
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NOW —SOLIDWORKS
CONNECTOR ON
THE **3DEXPERIENCE**
PLATFORM.



A SMOOTH TRANSITION FOR DESIGNERS

For enterprises with a PDM system, their designers appreciate the convenience and familiarity of accessing PDM functionality within their CAD environment. These PDM systems understand models and drawings created by the specific CAD application, because they are purpose-built for managing this data. CAD users rarely have a need to enter the PDM system directly. Making design data available to everyone in the company necessitates a fundamental change for CAD users who may work independently from the rest of the company and are accustomed to accessing PDM functionality through their CAD application. Accessing PLM data management capabilities outside the CAD application represents a significant change for many users, often resulting in a drop in productivity.

ENSURE DESIGNER PRODUCTIVITY WITH PLM

PDM systems focus on managing CAD data and related documentation. They offer capabilities to check-out/check-in CAD models and drawings, to manage design iterations and to control access rights. PLM systems go further by managing all product-related data and information, including CAD data, through a single enterprise view. Securing all product data in one location provides a single source of truth for the enterprise. To meet the needs of enterprise users, PLM systems offer much more functionality than PDM systems. For instance, a PLM system offers enterprise-wide process management across engineering and business processes, automatically generates reports and provides tracking mechanisms to enforce compliance to regulations and standards.

For most companies adopting a PLM system with PDM capabilities, design teams must change how they manage CAD data and other information to adapt to new business processes enabled by PLM. This impacts design productivity in two tangible ways:

- Designers lose their familiar PDM methodologies and must learn new processes to manage their data
- Finding basic PDM functionality within a full-featured PLM system becomes challenging

Since a designer's primary mission is to create innovative designs, not manage them, they need simple and intuitive access to a specific set of PDM functions required for their role. Designers are specialized users who want shortcuts to the tools that are directly relevant to them; everything else is a distraction. Designers simply want to check their work in and out every day. Having access to the full set of enterprise-wide PLM functionality is unnecessary.

With the SOLIDWORKS Connector on the **3DEXPERIENCE** platform, the enterprise gains access to design data, while designers continue to work within their familiar SOLIDWORKS interface. Designers do not lose productivity typically associated with the introduction of PLM, because the connector ensures that only the familiar PDM functions are presented in SOLIDWORKS.

ATTENTION DESIGNERS:

Effortlessly access, manage and share SOLIDWORKS data without leaving your preferred environment.

Utilize enterprise-wide process workflows, engineering and manufacturing data and project information.

Collaborate with all stakeholders throughout the enterprise directly from the SOLIDWORKS interface.

THE SOLIDWORKS CONNECTOR ON THE 3DEXPERIENCE PLATFORM

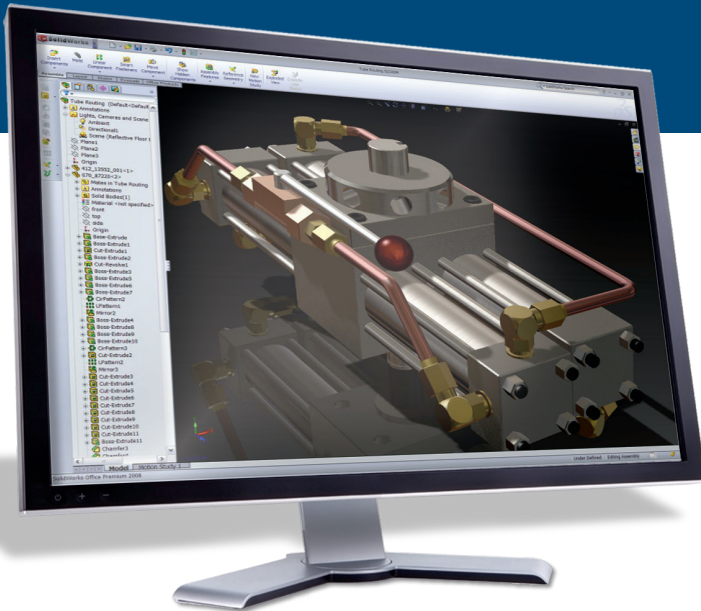
A FAMILIAR USER EXPERIENCE

The **3DEXPERIENCE** platform is a business experience platform to unlock enterprise-wide data and connect stakeholders for collaborative innovation. The platform, along with ENOVIA data-driven applications, enables a wide range of business processes and dedicated tools for the enterprise, including data management capabilities tailor-made for SOLIDWORKS users.

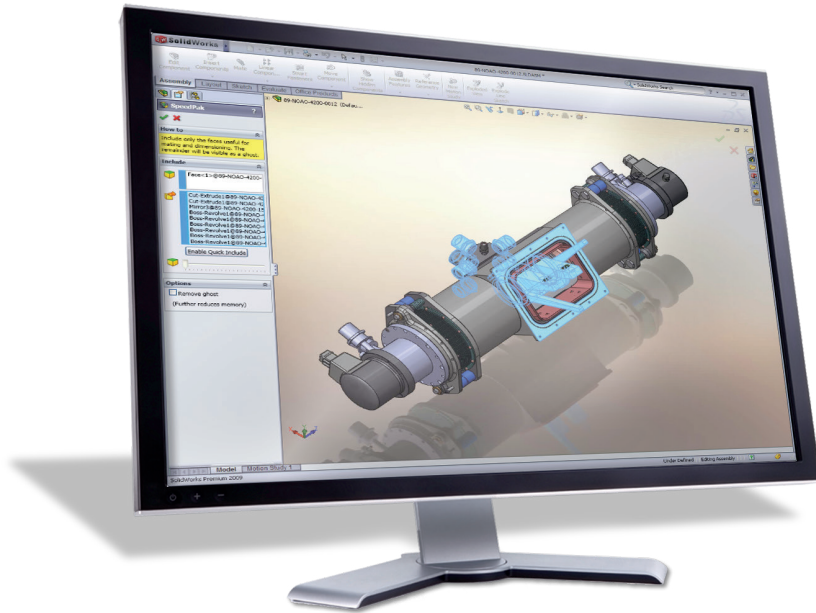
The experience of managing data with the SOLIDWORKS Connector is very similar to our SOLIDWORKS PDM Professional solution. A streamlined set of data management functions is available to the user from within the SOLIDWORKS interface. Designers do not have to leave the SOLIDWORKS environment to check in / check out their data, promote design status for review and release or to gain access to full PLM functionality.

The SOLIDWORKS Connector offers users a seamless connection to data management capabilities. That's because the ENOVIA capabilities for managing SOLIDWORKS models and drawings are integrated into the desktop file system. Users can simply save their files to their desktop, much like they would in a non-managed environment. Local files are automatically synchronized to a central server to maintain a single source and definition for every managed file. ENOVIA keeps track of which files are changed or out-of-date with the central server. Furthermore, the SOLIDWORKS Connector enhances Windows® Explorer with the ability to intelligently manage SOLIDWORKS data and share across the enterprise.

With The **3DEXPERIENCE** platform designers are free to choose wherever they need to work, because ENOVIA ensures the most up to date data is always accessible.



IMPROVE DESIGN
COLLABORATION AND BUSINESS
PROCESSES TO **ACCELERATE
PRODUCT DEVELOPMENT
AND DELIVERY**



LEVERAGE THE POWER OF THE **3DEXPERIENCE** PLATFORM AND ENOVIA

IMPROVE COLLABORATION AND ACCELERATE INNOVATION

You develop products in today's experience economy, where consumers demand experiences that are personalized and more rewarding. The **3DEXPERIENCE** platform enables you to harness your SOLIDWORKS data to create more innovative products and engaging experiences. From a single platform, everyone in the organization is able to share and view SOLIDWORKS models. Internal and external social communities provide connections between functions, teams and locations to help drive innovation. Search capabilities across internal file systems or the internet, and 6W tags to segment data and discover new data, result in fast, accurate and useful results. Out of the box capabilities provide for the creation of personalized dashboards to collect, view and access relevant information such as today's tasks, issues, priorities and related CAD data, as well as the ability to create business dashboards to gain greater insight and analysis on industry, company, programs, or projects to make more informed and better decisions.

Managing your SOLIDWORKS data on the **3DEXPERIENCE** platform is just the beginning. Your SOLIDWORKS data is now available to the rest of the enterprise to enrich the engineering and business processes enabled by ENOVIA. Issues and tasks can be associated with the related CAD part to ensure proper responsibility, tracking and resolution. The CAD product structure remains in sync with the engineering bill-of-materials (eBOM) to ensure everyone in the organization is working with the most up-to-date product information. And real-time assessment of project status is possible with deliverables-based project management and invisible governance, whereby an update to a CAD part or related document is automatically reflected in the project dashboard. Designers can focus on innovation, rather than on non-value-added tasks such as providing project updates.

Keep your PDM user experience and add the benefit of PLM.

Bring design data seamlessly to users and decision-makers throughout the enterprise.

Leverage the **3DEXPERIENCE** platform and ENOVIA to drive collaborative innovation.

SUMMARY AND CONCLUSION

For companies and users looking to gain the benefits of PLM, the solution is the SOLIDWORKS Connector on the **3DEXPERIENCE** platform. The solution provides a familiar and intuitive user interface for designers accustomed to SOLIDWORKS PDM Professional. And the SOLIDWORKS data is accessible to everyone to use with the engineering and business processes enabled by ENOVIA.

KEEP PDM SIMPLICITY WHILE GAINING PLM BENEFITS

Developed by the same team that created SOLIDWORKS PDM Professional, the SOLIDWORKS Connector delivers just the right data management functionality in a simple and familiar interface. It is directly integrated into the desktop and SOLIDWORKS interface, completely removing the need for users to learn a new way to do what they've done for years: manage their models and drawings quickly and easily. With the **3DEXPERIENCE** platform and ENOVIA, designers are able to preserve their existing work paradigms while enjoying the productivity gains and benefits of PLM.

LEVERAGE THE POWER OF THE 3DEXPERIENCE PLATFORM AND ENOVIA

The **3DEXPERIENCE** platform with ENOVIA provides PDM and PLM capabilities along with data-driven applications to create more innovative products and engaging experiences. From a single platform everyone in the organization is able to share, view and access SOLIDWORKS data and utilize that data in the engineering and business processes defined on the **3DEXPERIENCE** platform.

Our **3DEXPERIENCE**® platform powers our brand applications, serving 12 industries, and provides a rich portfolio of industry solution experiences.

Dassault Systèmes, the **3DEXPERIENCE**® 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 190,000 customers of all sizes in all industries in more than 140 countries. For more information, visit www.3ds.com.



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