Connect PDM with Cloud PLM for Superior Design Results
Avoid the Blind Spots of Disparate Design Systems

Much like it takes a village to raise a child – it takes the collaboration of an entire supply chain team of engineers, operations, quality risk managers and design manufacturers to successfully design a product that someday will leave the factory and go off into the world.

The problem is often each member or division works with their own siloed systems that are often disconnected from other systems. Unfortunately, operating in this disparate environment makes aligning stakeholders difficult and creates blind spots that increase the risk of supply chain oversights, employee missteps and product errors. Discovering quality failure late in the design process leads to costly scrap and rework as well as potential brand damage if the defective product slips past watchful eyes and enters the market.

Organizations with siloed PDM and PLM management systems routinely face these challenges:

- Product Delays – Without enterprise-wide visibility, miscommunication occurs and tracking records and progress can be difficult. BOM management becomes unwieldy and design processes slow to a gridlock.
- Scrap and Rework – Companies with disparate PDM and PLM systems tend to have more errors occur due to version control and lapses in manual processes and poor documentation.
- Increased Risk of Quality Failure – Absent a holistic solution, a lack of transparency can hinder corrective or preventive actions, thus increasing the risk of compliance exposure.

Enhanced Data Management Across The Entire Product Design Lifecycle

Today’s manufacturing world demands a platform that integrates PDM with cloud PLM to enhance collaboration and visibility, streamline design processes, and avoid the risk of costly quality failure.

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“The benefit of having Fusion Lifecycle and Vault integrated is engineers can simply maintain and update the status of drawings inside Vault; in doing so, it allows us better control over the engineering process and allows our engineers to be more efficient with designs.”

Mark Keilholz
Senior Director Information Technology,
Greenpoint Technologies
Autodesk Ensures Lifecycle Visibility and Fosters Greater Collaboration

A company's ability to foster collaboration across the enterprise is key to successful new product introductions. This tightly woven PLM and PDM solution allows for the bi-directional frictionless flow of information among supply chain teams and results in a superior approach to product design management. Communication of actions taken by all relevant parties prevents disjointed and duplicated efforts. This connected solution brings all design moving parts, such as regulatory compliance, global monitoring, quality assurance, risk management and part nonconformance, together into a single, integrated view. This visibility facilitates company-wide collaboration to address product improvements. The resulting business benefits include:

- **Improved Collaboration and Visibility** – Operations, manufacturing, quality and engineering work together proactively in the design cycle for superior design thinking.

- **Streamlined Design Processes** – Digitization of processes from NPI thru development and expansion of change management to the complete product record improves data management between design and manufacturing teams.

- **Higher Product Quality** – Design and manufacturing teams thrive in a culture of continuous improvement enhanced by bi-directional data sharing for better end-to-end closed loop traceability.

- **Reduced Costs and Higher Margins** – Process improvements in operations, manufacturing and design reduce scrap, rework and labor to maximize product margins.

- **Increased Innovation** – By better leveraging all stakeholders, companies capitalize on the expertise throughout both their design and manufacturing teams to make high quality products.

**The Power of Integrating PDM with PLM**

The only way to keep everyone on the same page to prevent potential errors, quality risks or bottlenecks from crippling your new product introduction processes is a proactive holistic approach to overseeing and managing the entire product lifecycle.

That’s why Autodesk has seamlessly integrated Vault, our best-in-class PDM solution, with Fusion Lifecycle, our cloud-based PLM solution. Companies now have the enterprise-wide visibility and modern bill of materials (BOM) management capabilities needed to accelerate design cycles, lower costs, and keep costly product errors from slipping past quality control and shipping to market.

Autodesk combines the best of both worlds: cloud PLM enhances supply chain collaboration and information sharing while PDM secures sensitive IP data and ensures faster and more accurate analysis of data.

**Bi-Directional Flow of Data**

One of the core benefits of integrating Vault and Fusion Lifecycle is the bi-directional flow of data like Change Management, Lifecycle status, and Quality Management for closed loop traceability.

Additionally, actions in the CAD environment can be populated into PLM and CAD users can dynamically query PLM for critical information. This integration gives engineers the ability to make fully informed design decisions based on all relevant engineering and corporate data.
Choose Autodesk to provide you with the enterprise-wide visibility needed to lower design costs, reduce risks, and accelerate time to market for maximum business results.

About Vault
Vault data management software helps organize, manage, and track data creation, simulation, and documentation processes for design, engineering, and construction teams. If you are an Autodesk customer who uses Vault today, you are already focused on managing design data. Vault also offers best-in-class CAD integration with superior local file management and versioning, and the ability to generate and publish derived formats.

About Fusion Lifecycle
Fusion Lifecycle helps you accelerate your product development processes across all departments and locations by automating workflows, key tasks and delivering timely information. Because Fusion Lifecycle is on the cloud, everyone has access to the data they need anytime, anywhere.

The Advantage of Vault + Fusion
Vault is a great foundation for a PLM investment. By the same token, if you have already invested in Fusion Lifecycle, adding PDM capabilities to your PLM workflows streamlines end-to-end product development processes and unlocks your imagination and your company’s innovation with a superior data management solution.

Autodesk offers today’s innovative manufacturers a streamlined design solution that’s the best of both worlds.