

INDUSTRY INNOVATION



OBJECTIVE

Industry Innovation provides engineering teams an essential set of apps for real-time, secure and structured collaboration on product content. **Industry Innovation** provides a scalable, online environment for managing product design, multi-physics simulation and manufacturing process planning with maximum traceability and flexibility. **Industry Innovation** extends and supports compliance to standard enterprise business processes (Change, Project, Quality, etc) when relevant Roles are added, connecting the entire industry value chain.

Key Benefits:

- Enable efficient team collaboration through secured concurrent access to data and lifecycle management.
- One single source of truth for all your product IP including multi CAD design data.
- Enable hybrid data and model-based driven engineering as enabler of end to end digital continuity.
- Natural support of collaborative 3D validation scenario in a hybrid CAD environment.
- Easily organize, optimize, access and execute work through tasks.
- Access and start navigate product digital mockups of large designs from any device.
- Compliance to standard enterprise business processes (Change, Project, Quality) *
- Provides mobility and security via the Cloud

OVERVIEW

Industry Innovation provides apps and services that connect all users in the industry value chain together – to organize, manage and collaborate on content in real-time and in a secured manner. The role includes a single repository to store, share and manage content, search and find relevant data and information, navigate through a product data set, easily view and compare 3D content.

Industry Innovation is based upon a common data model for design/engineering, manufacturing/production and simulation processes. Its online environment helps medium to large companies bring more innovative products to market faster.

When used for **3DEXPERIENCE**® CATIA® and XCAD, **Industry Innovation** is the only technology in the market that supports “data-driven design.”

CAPABILITIES

Manage and Share Content for Effective Collaboration

Distributed team members can share any content in a very simplified way using the 3DSpace app. The app enables users to create and manage collaborative spaces, add members with different right levels, and provide direct access to any stored content including CATIA®, SOLIDWORKS®, DELMIA®, SIMULIA®, ENOVIA® and multi-CAD content. Access to collaborative spaces is secure, as each user is granted access as a member of a collaborative space with a given role for a given organization.

3DEXPERIENCE CATIA, DELMIA, SIMULIA

Data Management

Industry Innovation manages all authoring content created using **3DEXPERIENCE** CATIA, SOLIDWORKS, DELMIA®, SIMULIA® apps in one unique environment and one single database. It promotes collaboration across different teams and disciplines (design, manufacturing, simulation) using similar content management tools (versioning, maturity, lock / unlock, etc.). **Industry Innovation** automatically determines assembly components that are out-of-date, delivering the right context quickly for accurate and fast updates.

With **Industry Innovation**, users can navigate the entire product structure in 3D regardless of size. Users can filter the product structure based on diverse criteria to find the needed parts quickly. The used criteria for filtering can be saved for reuse. Owing to the common data model and data-driven architecture, users can identify dependencies inside one domain and between domains. They can navigate between design components and related items such as other designs, simulations, drawings, manufacturing processes, functional and logical views. Better decision-making occurs when a user can determine the impact of design modifications.

Industry Innovation uses the 3D index for both 3D representations and product structure navigation. This enables fast loading of a lightweight 3D session for extremely large products. In addition, from the 3D of the root node, users are able to access any component down to the leaf node without needing to navigate the structure. The 3D index provides the benefit of fast 3D navigation while still making it possible to deliver accurate information from the **3DEXPERIENCE** platform.

Multi-CAD Data Management

Industry Innovation in conjunction with **3D Component Designer** manages content created with MCAD applications including CATIA V5, SOLIDWORKS, NX, Creo Parametric, AutoCAD, Solid Edge and Inventor as well as ECAD applications from Cadence Allegro, Mentor Graphics and Zuken.

Manage IP Collaboratively

Industry Innovation provides services to manage content lifecycle in the **3DEXPERIENCE** platform supporting structured and global product development process. The service includes the ability to create, modify, open, save, duplicate, create iterations and versions, lock/unlock, and delete content among others.

Promote IP Reuse

Unstructured classification can be done with “user defined” tags. Content can also be classified in libraries using an appropriate taxonomy. With each of these approaches, users can access design components for reuse.

Enjoy Immersive Business Intelligence

Key performance indicators (KPIs) can be highlighted directly on the 3D design model, using the B.I. Essential tool. Various stakeholders can visualize and present information quickly, displaying specific attributes obtained from various **3DEXPERIENCE** apps. Examples include regulatory compliance, failure rate, program risk level, and product lifecycle stage/maturity.

Design Even When the Network is Unavailable

Users of **3DEXPERIENCE** CATIA, SIMULIA and DELMIA apps can work temporarily without an online connection. IP protection is preserved even when offline since authentication is requested to work and access data. Working offline is limited to 30 days. This period corresponds to the maximum time allowed for local license reservations.

Collaborative Tasks

Users can easily organize, optimize, access and execute their work with a simple “one-step” task creation that can reference files or existing objects already available in the **3DEXPERIENCE** platform. Tasks are organized on a virtual Kanban board to visually see work-in-progress and improve communication between all users. Capabilities include the ability to drag and drop attachments of related deliverables for easy access from with the task.

Data-Driven Design with 3DEXPERIENCE CATIA

When used for **3DEXPERIENCE** CATIA and XCAD *, **Industry Innovation** is the only technology in the market that supports “data-driven design:”

- Designers can author and manage design directly online with the **3DEXPERIENCE** platform instead of locally on checked-out data that is potentially outdated.
- Designers confidently access the real-time virtual prototype from anywhere anytime, which helps improve their productivity and leverage global engineering talent to develop innovative products.

- Designers can pursue improved “concurrent engineering” by enabling teams to simultaneously design a product assembly, enabled by the unique capability of managing assemblies in the “database” and not in “files.” This helps converge on the targeted design much faster reducing overall cycle time.

Configuration Management

When **Industry Innovation** is expanded with **Configuration Management**, the following is possible when managing **3DEXPERIENCE** CATIA:

- Designers can define all product variants within a single configured product structure considering global market needs through its “design in a configured context” capability, which enables companies to achieve the simultaneous launch of products.
- Designers retrieve parts from impacted variants in real-time in a “max case” or “overloaded” design session to converge on the most optimum design significantly faster. This encourages design reuse enabling companies to offer more variants at lower costs.

(*) When **Industry Innovation** is expanded with **3D Component Designer**, it manages content created with MCAD applications including CATIA® V5, SolidWorks® V1, NX™, Creo Parametric, AutoCAD, Solid Edge and Inventor as well as ECAD applications from Cadence® Allegro, Mentor Graphics and Zuken.

Regardless of the CAD tool used, the design information is available to all complimentary processes. As such, the latest design status and information is reviewable as part of processes such as requirements management, program management, sourcing, materials compliancy, and product quality.

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 210,000 customers of all sizes in all industries in more than 140 countries. For more information, visit www.3ds.com.



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