



3DEXPERIENCE® PLM Collaboration Services On Cloud

3DEXPERIENCE® Product Lifecycle Management (PLM) Collaboration Services is a portfolio of integrated solutions built on the cloud-based Dassault Systèmes **3DEXPERIENCE** platform. Serving as the backbone for data and product lifecycle management, it enables you to manage seamlessly all stages of product development:

Plan, Develop, and Release.



Collaborate with your team using integrated social tools. Engage with management, customers, suppliers, or any other stakeholders throughout the product development process.

Easily manage your communication, data, product lifecycle in the cloud, helping you to increase business agility and bring innovative products to market faster.



Secure Cloud Platform

The **3DEXPERIENCE** Platform on the Cloud offers simplicity, delivering a transparent all-in-one service on the Cloud with an immediate and common access to the largest portfolio of applications. Cloud is simply the foundation of All Digital, it is about Inclusion.

----- Key Features Include -----

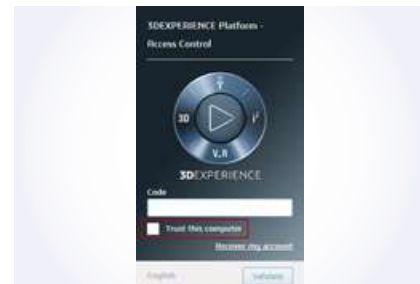
PLATFORM & APPLICATION SECURITY

3DPassport is the authentication and authorization layer of the **3DEXPERIENCE** Platform. It provides authentication and authorization services on the platform. Administrators can easily maintain user authentication policies like password strength, expiry and configure patterns to detect brute-force attempts at unlocking passwords. 3DPassport also maintains logs to audit access.



Single Sign On : By exchanging authentication and authorization data in a standard format, 3DPassport provides a seamless single sign-on experience across the apps on the platform. 3DPassport can be easily configured to work with other enterprise single-sign-on services.

2FA Authentication : A higher level of security can be achieved by leveraging 2FA authentication capabilities on the platform. Once configured by an admin, the user can use a mobile app to generate a code, to be entered along with the password, for added security.



PLATFORM MANAGEMENT

The Platform Manager role, within the **3DEXPERIENCE** Platform allows administrators to manage members, assign roles, platform vocabularies and 3DDrive usage via controls center widgets:



Members Control Center

Invite users to join the platform and grant roles to users.



Enterprise Control Center

Manage platform vocabularies.



Drives Control Center

Monitor usage and manage setting for 3DDrive



Communities Control Center

Manage platform and community settings.



Passport Control Center

Manage platform and user security settings

UNIFIED USER EXPERIENCE

The 3DCompass provides a unique and innovative user experience across all 3DEXPERIENCE. Through their 3DCompass, users can have a one-click access to roles, apps, services and communities. 3DCompass can be viewed as the internal 3DEXPERIENCE app store. Through its navigation infrastructure, it provides role-based access to the apps.



BUILT FOR MOBILITY

3DEXPERIENCE On the Cloud extends collaboration to users in Mobility. Whether you need access on a smartphone or a tablet, 3DEXPERIENCE provides the utilities that allow users stay productive while out of the office. Users have access to data and documents to view and approve, they can also view, drag, rotate 3D data, view and share simulation data, office documents using the 3DPlay App.



TEAM COLLABORATION

Social Communities, Blogs and More...

With 3DSwym, businesses of any size can simply and quickly create their own corporate social network. Employees, partners, suppliers, consumers and any other stakeholders become active participants in the innovation process, extending and enriching the ecosystem.



Collaborate in Social Communities

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Connect to Experts

Members register their skills, qualifications, project information along with descriptions of areas of interest. Searching for members with experience in specific domains helps to leverage expertise across the eco-system. Surveys and ideation funnels are useful to solicit feedback from a broad range of participants. Ideas are advanced through a funnel as they mature.

Mature Ideas

Sharing ideas and participating in discussions is a necessity during product development. Ideas can be tracked with an ideation funnel and prioritized based on feedback from all stakeholders including consumers.



Communities

Create communities by expertises, activity or internet and share knowledge



Social Profile

Establish talent database with skills, experience and qualification.



Survey

Listen and understand innovation priorities



Ideation

Prioritize ideas based on feedback from multiple stakeholders.

3D Messaging...

Instantly Collaborate and Share Ideas in 3D

Users collaborate with each other in real-time by using the 3DMessaging service. 3DSwym users can collaborate with each other and with users of native apps in real-time by using the 3DMessaging chat service.

Richer Collaboration

App users can also collaborate with other users to share 3D content and markups in real-time.

Always Connected

App users can also collaborate with other users to share 3D content and markups in real-time.

Audio and Video Calls

Enrich collaboration with audio and video calling in context right from the dashboard right pane.



Document Management & Sharing...

3DDrive provides cloud-based document sharing capabilities as an integral part of the platform.

- Share Securely**

With 3DPassport authentication, users can securely store their documents on 3DDrive and access them from any device. They can also create folders and share the documents with co-workers and collaborators across the value stream.
- Mashup Files from Multiple Cloud Drives and Compass the Data**

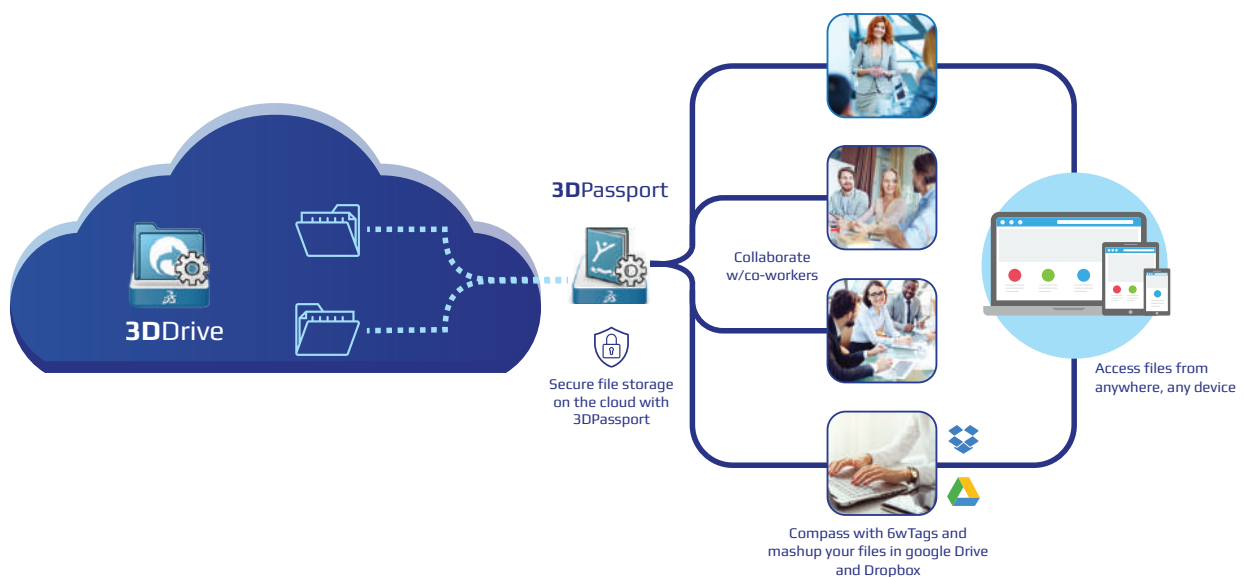
Users can mash-up data from multiple cloud drives including Google Drive and Dropbox. The data from these sources are indexed by the platform search services and are 6WTagged, to enable better navigation and discovery
- Seamlessly Interact with 3DDrive from Microsoft Windows Explorer**

3DDrive presents a familiar folder experience to the users. Users can drag and drop their files into the 3DDrive and operate using familiar commands like copy and paste, lending to rapid adoption.
- Share with Guest Users**

With 3DDrive, users can share links to content with external users through a social media platform or email. Guest users can register for the platform and gain access to content, including 3D content and experience the same with 3DPlay
- File Intelligence**

3DDrive understands relationships between files and intelligently navigates related files during download, open, move and copy operations – in particular, for CATIA V5 and SOLIDWORKS (assemblies and parts).
- Publish to 3DSwym**

Publish content from 3DDrive into social communities and receive feedback from across the value stream.



3D Web Viewing...

3D Web viewing is powered by 3DPlay, which provides immersive 3D visualization in the browser in context of the apps and widgets. This highly responsive capability enhances collaboration by providing instant visualization of 3D parts and assemblies on all devices.

File Intelligence

Visualize entire CATIA (V5, **3DEXPERIENCE**) and SOLIDWORKS assemblies, navigate assembly structure and cross highlight components.

Zoom, pan and rotate your 3D objects with instinctive multi-touch gestures. Manipulate 3D objects, examine them in an exploded view and annotate them.

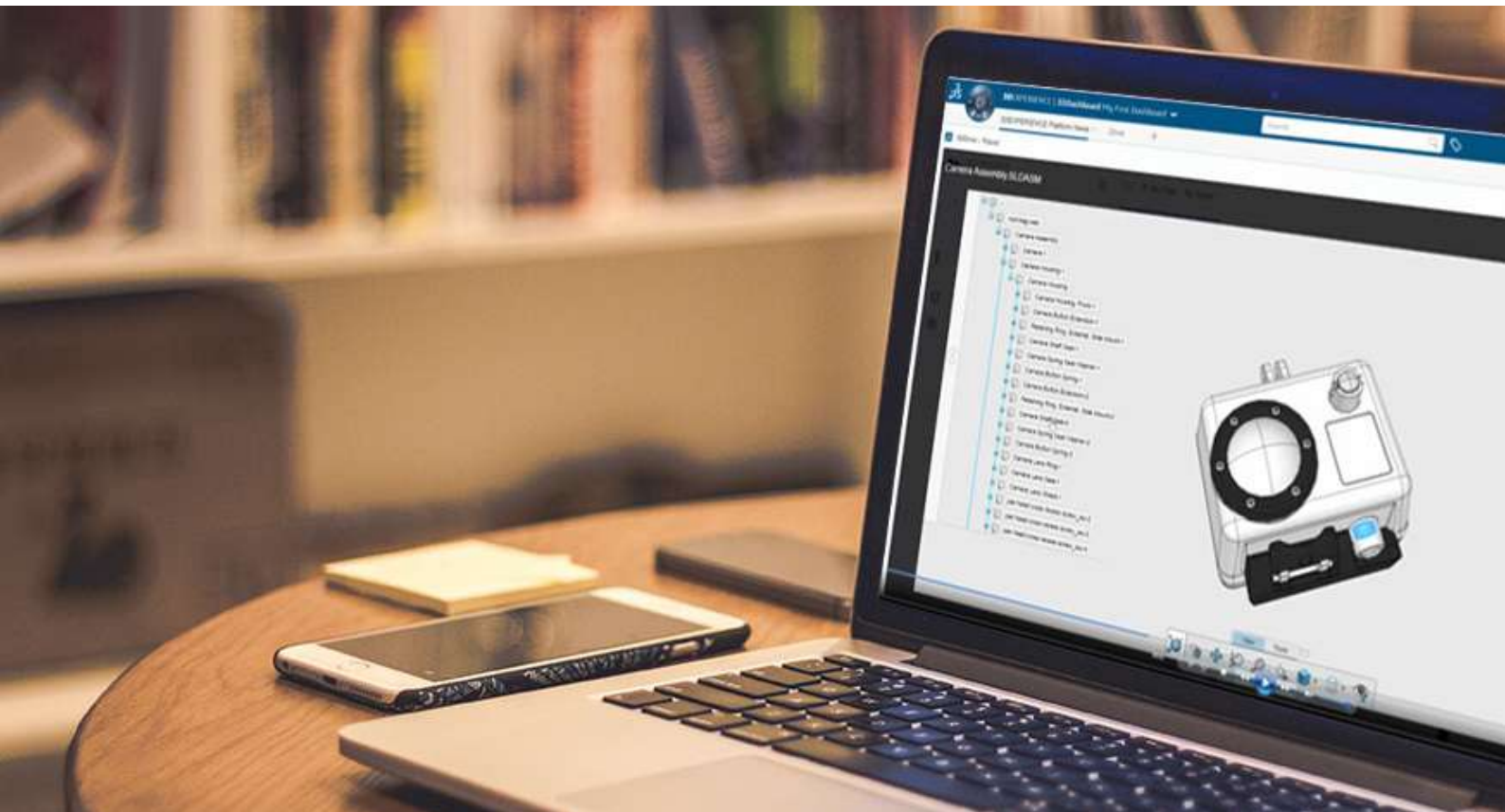
Share Model-based Simulation Results with the Enterprise

3DPlay capabilities including immersive annotation, visualization of simulation results, and visualization of motion on assemblies make it the perfect collaboration tool across different functions.

Experience 2D and 3D

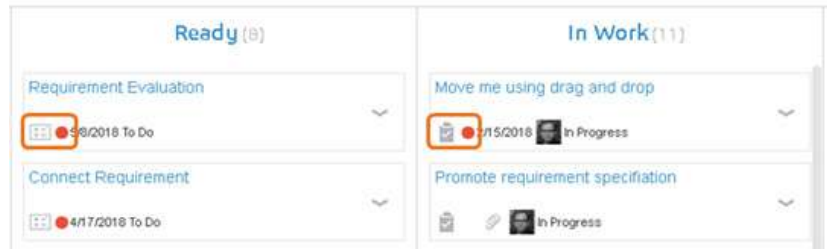
Experience 3D content in 3DXML, CATIA V5, SOLIDWORKS, STEP / STEPZ (AP242 tessellated format), and STL formats as well as 2D content (images and drawings) in SVG, JPG, PNG, GIF and BMP formats from the different data sources available in the **3DEXPERIENCE** platform:

3DDrive, 3DSwym and 3DSpace. Specifically, with the 3DDrive integration, the user can also experience SOLIDWORKS, eDrawings and HWF, DXF, DWG formats. In addition, immersive visualization and annotation of pdf files is supported.



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.

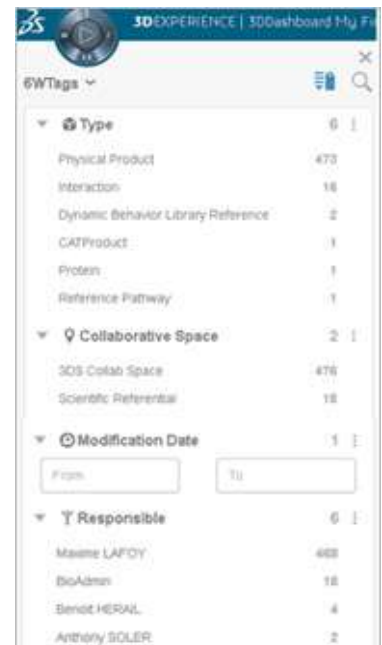
3DSearch and 6WTags:

Index Everything

All data on the 3DEXPERIENCE platform is indexed. This big data approach adopted by the platform connects to multiple systems and creates an index of the information. Apps on the platform adopt Intelligent algorithms that scan this index to automatically discover links and collate all related information in relevant dashboards specific to the use-case at hand.

Find what you Need in an Instant

3DSearch delivers a unified search capability across the apps on the platform. Content in the platform is tagged automatically with one or more tags describing the content in terms of **“Who, What, When, Why, Where, and How.”**



Users benefit from a unified user experience in finding information using 3DSearch services. Full-text search allows for all metadata and data stored in the 3DEXPERIENCE platform to be searched. The categories for searching are contextual depending on the current application scope.

Unique Filtering to find what you need Faster

Content in 3DDrive, collaborative spaces and communities is tagged automatically when saved using one or more tags describing the content in terms of “Who, What, When, Why, Where, and How”.

In addition, users can also add their own tags and use them to filter the search results. Users can filter the search results based on these tags and find the results in a few clicks. with co-workers and collaborators across the value stream.

SOLIDWORKS Desktop Connector

Perform your everyday tasks from within the SOLIDWORKS Desktop Interface with a built in 3DEXPERIENCE Cloud connector.

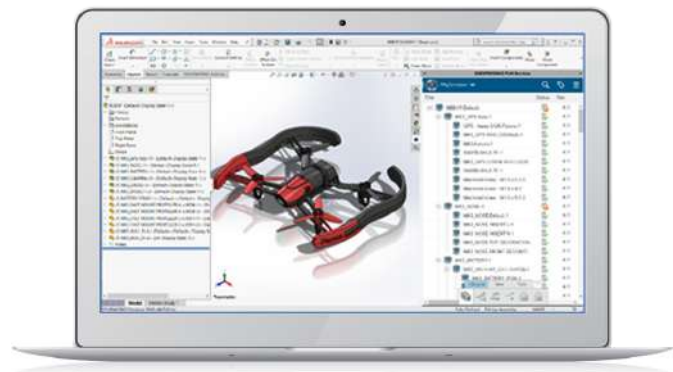


From within the SOLIDWORKS application, designers can easily save, find, and access data inside the 3DEXPERIENCE cloud platform. Users can also create folders within each workspace with access privileges for secure content and share them with team members inside and outside of their organization.

----- Key Features Include -----

Search, Open and Save CAD designs from 3DEXPERIENCE directly from within SOLIDWORKS Desktop.

- ✓ 3DEXPERIENCE immersive menu
- ✓ Create new designs based on template
- ✓ Create web folders to secure and share content
- ✓ Insert components from 3DEXPERIENCE into active design sessions
- ✓ Save modified designs to the 3DEXPERIENCE Platform
- ✓ Create and save baseline designs



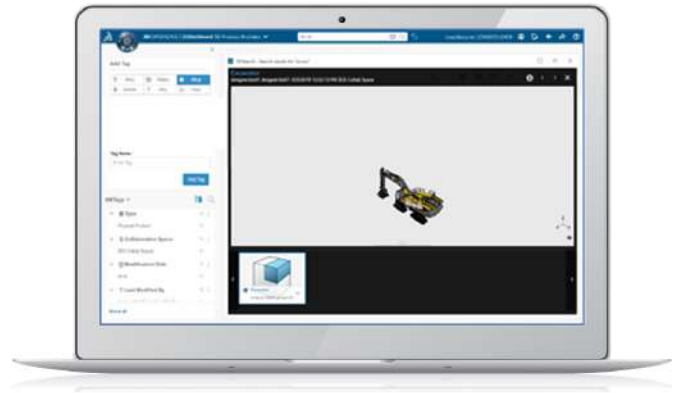
Create new revisions, duplicate structures and apply other lifecycle operations through Collaborative Lifecycle capabilities



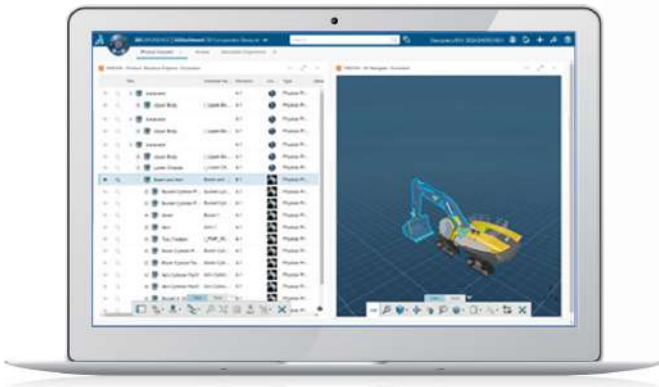
- ✓ Revise
- ✓ Promote maturity (Release)
- ✓ Duplicate structure
- ✓ Compare
- ✓ Change owner
- ✓ Lock/Unlock
- ✓ Where used
- ✓ Delete

Search and explore products via the web to understand product composition and impact on related items when considering change

- ✔ Search products and refine through tags
- ✔ Explore attributes
- ✔ Explore related items
- ✔ Drag and drop into product explorer
- ✔ Expand design structures
- ✔ Discover where used
- ✔ See associated drawings



Navigate product structure via the web along with the 3D representation to identify specific items within large product assemblies



- ✔ Drag and drop from search results
- ✔ Expand product structure
- ✔ Search in context
- ✔ Cross highlight
- ✔ Measure & section
- ✔ Swap visible space
- ✔ Filter structure by attribute or configuration

Review functional tolerance and annotation with team members via the web to expose potential manufacturing impacts

- ✔ Load and review product FT&A
- ✔ Select annotation sets
- ✔ Select attributes



PLM & Configuration Management

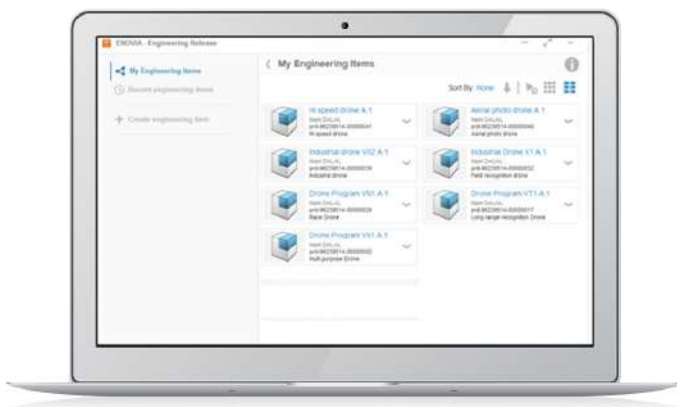
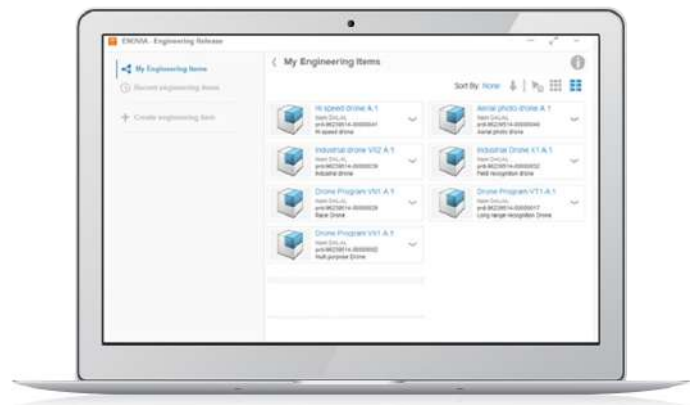
3DEXPERIENCE on the Cloud provides robust PLM capabilities which enable users to significantly reduce product development process complexity and time by leveraging a consolidated design and engineering structure, thus eliminating the need for design and engineering structure synchronization.

Users can manage the engineering definition of a product from early stages to the final validation and release to production in collaboration with multi-discipline designers. This process can be governed by a formal change process to track changes and to improve operational efficiencies.

----- Key Features Include -----

Engineering Item Dashboard

Instant access to engineering items owned by the user that can be narrowed down to the desired items, thus reducing the non-added value time to quickly find the engineering item(s) of interest.



Product Definition & Initiation

Includes duplication, re-use or exclusion of existing product definitions. Reduces the time required to create / initialize a new product.

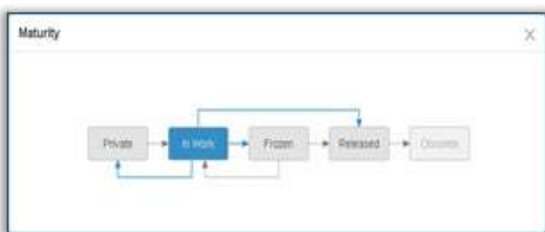
Part Number Definition

Part numbering, usually handed off to other downstream applications such as ERP, is defined for the engineering item according to corporate standards. This ensures the right definition early in the process.



Content Edition (create, update, replace) and Lifecycle Maturity

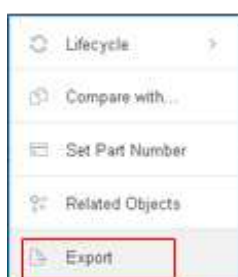
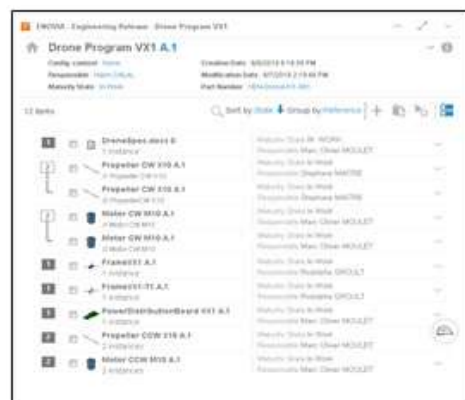
Real-time product definition that keeps the product up to date. Engineering item release as a preparation to production, mainly for long lead items that require early release for manufacturing / purchasing / procurement purposes. Engineering item revisioning, to ensure the company follows Form-Fit-Function methodologies



Graph	Title	Created	Revision	Maturity	Description
	Motor CW M10	Fri Jun 22 2018 14:35:3...	E.1	IN_WORK	
	Motor CW M10	Fri Jun 22 2018 14:35:2...	D.1	FROZEN	
	Motor CW M10	Fri Jun 22 2018 14:35:2...	C.1	RELEASED	
	Motor CW M10	Fri Jun 22 2018 14:35:1...	B.1	FROZEN	
	Motor CW M10	Wed Jun 06 2018 15:30...	A.1	RELEASED	

Engineering Definition/ Bill of Materials

- ✓ Manage BOM items with carryover and reuse
- ✓ Ensure the right person is allocated to the right engineering item(s)
- ✓ Group items by reference for quantity rollup
- ✓ Structure flattening
- ✓ Excel export of BOM



Enterprise Change Management

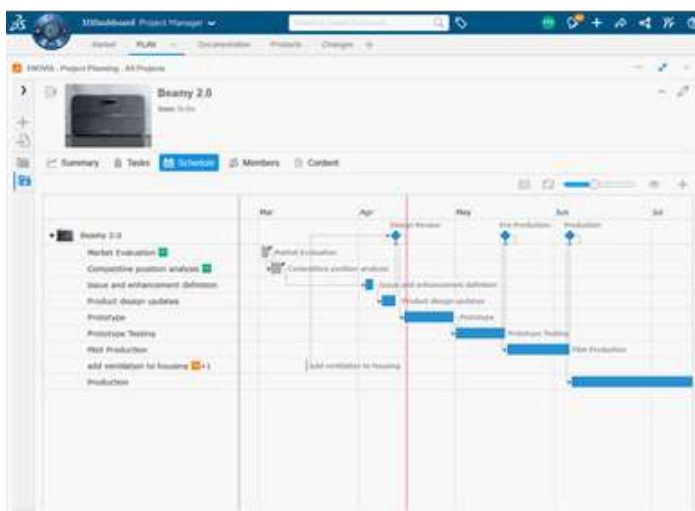
Change Management saves time and money by enabling companies to efficiently define, standardize and execute change management processes across multiple business functions. Its process methodology covers the complete scope of a change from concept, planning, design, and manufacturing, to final product delivery and release.

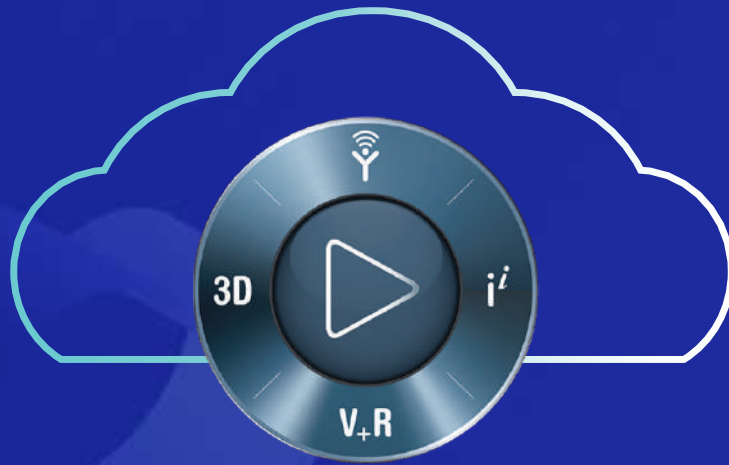
- ✓ Coordinate and track cross-functional change dependencies
- ✓ Release and revise of CAD and other documents
- ✓ Change impact analysis
- ✓ Reviewer & Approval lists
- ✓ Engineering change templates

Name	Type	State	Creating Organization	Availability	Description	Owner	Change Policy	Change Type
Recycle Change Template	Change T.	Active		Personal - All	Personal for recycle products only	Edwin COOPER	Formal Change	Change Order
Fast track	Change T.	Active	Company Name	Enterprise - Company Name		creator	Fast track Change	Change Order
Formal	Change T.	Active	Company Name	Enterprise - Company Name		creator	Formal Change	Change Order
Nonformal Change Order Template	Change T.	Active	Company Name	Enterprise - Company Name	No changes that impact the hardware	Edwin COOPER	Formal Change	Change Order

Project Planning & Execution

With Project Planning app inside the 3DEXPERIENCE Platform, users can collaboratively innovate through flexible team-based planning and execution, Define projects, milestones and dependencies, Automatically schedule and optimize projects to meet key milestones.





3DEXPERIENCE®



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