



CIDEON – engineering digitized.

CIDEON 3DX - SAP Interface

Data and Process Synchronization Between Dassault Systèmes 3DEXPERIENCE and SAP

The 3DEXPERIENCE platform enables integrated digital engineering by mapping all PLM processes. In most companies, such a PLM solution must be capable of being integrated into complex IT infrastructures, since a large number of manufacturing and planning processes take place outside the 3DEXPERIENCE platform, e.g. in SAP ERP.

The CIDEON 3DX - SAP interface is a server solution optimized for stability and data security for the coupling of 3DEXPERIENCE and SAP.

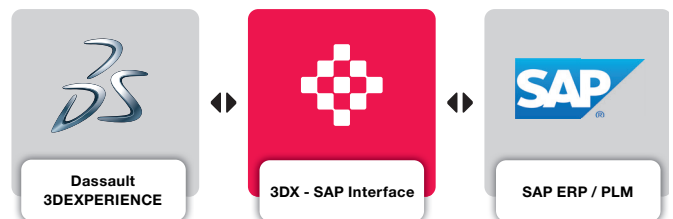
Information from 3DEXPERIENCE and SAP is exchanged bidirectionally for high process reliability and efficiency.

This provides you with a flexible solution for data and process synchronization between the two systems.



Your Benefits

- Best-in-class features and functions
- Future-proof, service-oriented architecture
- Ready for immediate use
- Dassault 3DEXPERIENCE partner product



PROCESS CONSULTING

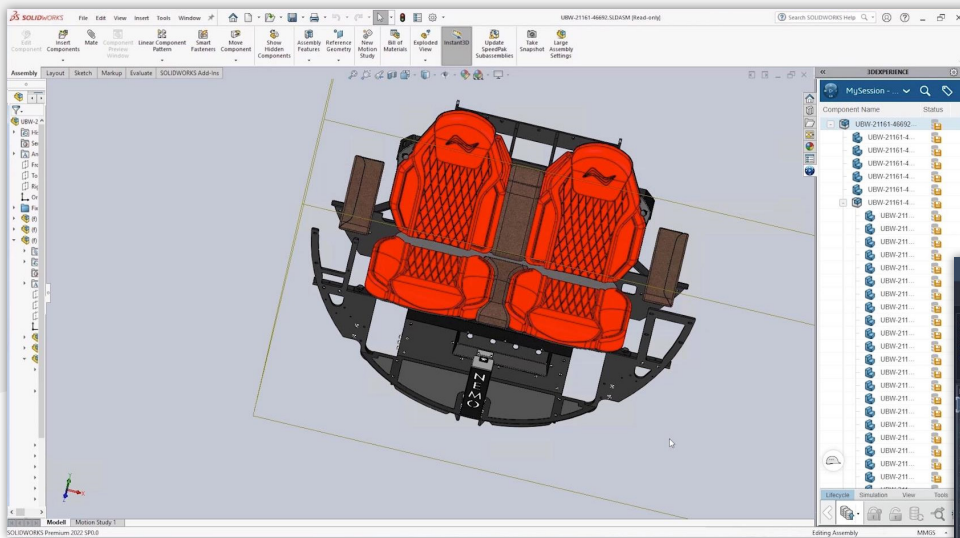
ENGINEERING SOFTWARE

IMPLEMENTATION

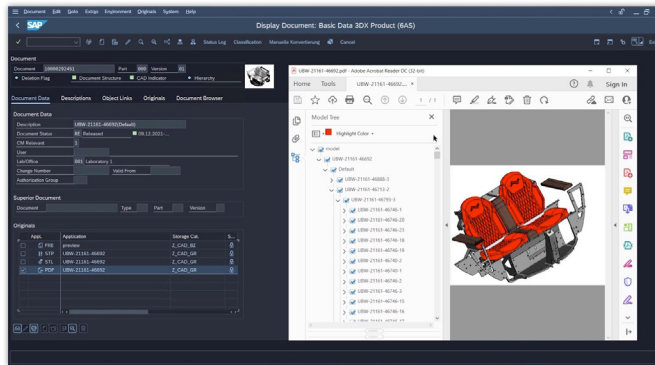
GLOBAL SUPPORT

CIDEON 3DX - SAP Interface

Connecting Worlds



SOLIDWORKS model, as managed in 3DX



SAP Document with attached neutral formats and other synchronized 3DX metadata

Explosion level	Item	Qty	Component number	Object description	Comp. Qty (Clas)	Unit	Kit	Ex.	C.
1	0010		110363	UBW-21161-45688(Default)	1	PC	L	X	
1	0020		110476	UBW-21161-45667(Default)	1	PC	L	X	
2	0010		110460	UBW-21161-45609(Default)	1	PC	L	X	
2	0020		110402	UBW-21161-45625(Default)	1	PC	L	X	
2	0030		110332	UBW-21161-45607(Default)	1	PC	L	X	
2	0040		110397	UBW-21161-47030(Default)	1	PC	L	X	
2	0050		110331	UBW-21161-45615(Default)	1	PC	L	X	
2	0060		110349	UBW-21161-45669(Default)	1	PC	L	X	
2	0070		110460	UBW-21161-45609(Default)	1	PC	L	X	
2	0080		110477	UBW-21161-45605(Default)	1	PC	L	X	
2	0090		110332	UBW-21161-45607(Default)	1	PC	L	X	
2	0100		110331	UBW-21161-45615(Default)	1	PC	L	X	
2	0110		110477	UBW-21161-45605(Default)	1	PC	L	X	
2	0120		110377	UBW-21161-45533(Default)	1	PC	L	X	
2	0130		110349	UBW-21161-45669(Default)	1	PC	L	X	
2	0140		110381	UBW-21161-45684(Default)	1	PC	L	X	
2	0150		110477	UBW-21161-45605(Default)	1	PC	L	X	
2	0160		110377	UBW-21161-45533(Default)	1	PC	L	X	
2	0170		110328	UBW-21161-45693(Default)	1	PC	L	X	
2	0180		110322	UBW-21161-45677(Default)	1	PC	L	X	
2	0190		110332	UBW-21161-45627(Default)	1	PC	L	X	
2	0200		110477	UBW-21161-45605(Default)	1	PC	L	X	
2	0210		110332	UBW-21161-45607(Default)	1	PC	L	X	
2	0220		110477	UBW-21161-45605(Default)	1	PC	L	X	
2	0230		110332	UBW-21161-45607(Default)	1	PC	L	X	
2	0240		110377	UBW-21161-45533(Default)	1	PC	L	X	

3DX engineering item structure synchronized with SAP Material numbers and BOMs

Compatible With SAP PLM and SAP Applications

Objects in SAP, e.g. documents, materials, BOMs, metadata, etc. are always kept up-to-date as defined in the CIDEON 3DX - SAP Interface. Familiar functions, especially those from SAP Product Lifecycle Management (PLM), can immediately be used with the objects synchronized from the 3DEXPERIENCE platform.

SAP PLM functions such as material and object links or the extraction of BOMs can be used as before, also when using SAP change management. Using synchronized data structures from 3DEXPERIENCE, SAP product structure management and synchronization between development and manufacturing can be instantly performed. The option is always available to generate material and production BOMs, either automatically or manually. These lists are then available to all downstream SAP processes.

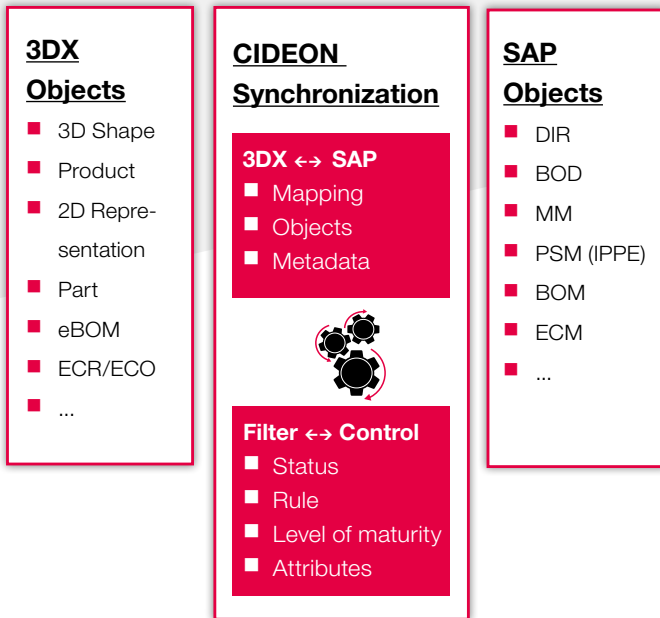


Maximum Efficiency When Using 3DEXPERIENCE Platform and SAP

Engineering, product and manufacturing data need to be seamlessly integrated into the company's process landscape and also into SAP, since the entire process often involves both systems. Maximum efficiency can only be achieved by a bidirectional exchange of information. CIDEON 3DX - SAP Interface is a Dassault Systèmes partner product to ensure the fully automated exchange of all relevant information between 3DEXPERIENCE and SAP.



Functional Overview



Synchronization mechanisms and objects

„Out of the Box“ Features

- SAP document info record creation and updating
- SAP materials and SAP BOMs (single and multilevel) creation and updating
- SAP classification support
- Bidirectional data exchange between 3DX objects and SAP Materials and SAP BOMs
- Complex mapping scenarios support
- Creation of object links between SAP documents and SAP materials
- Creation of preview images and neutral formats (using the CIDEON Conversion Engine)
- Engineering and manufacturing object support
- Configuration management support



Highlights

- Fully automated data and process synchronization between the 3DEXPERIENCE platform and SAP
- Mapping of 3DEXPERIENCE data in SAP, mapping of SAP data in the 3DEXPERIENCE system
- Change object (ECR, ECO, etc.) support
- Highly flexible and expandable mapping rules for system synchronization
- Event-driven, status- and parameter-dependent transmission
- Mechanisms for filtering out unwanted objects and data
- Scalability and high performance, even when processing large volumes of data
- Verifiable through detailed logging of synchronization
- Numerous administration tools for easy configuration and monitoring
- Support of CIDEON Conversion Engine
- Simple and highly user-friendly
- Adaptable and expandable



Your Benefits of Connecting Worlds

Benefits for Your Company

- Optimal adaptation to business processes
- Easy processing of complex product information
- Faster processes through quick and company-wide access to relevant data and information in both systems for planning, design, production, maintenance, and administration
- Ensures consistent release processes between the 3DEXPERIENCE platform and SAP
- Prevents information gaps and transmission errors
- Prevents duplicated acquisition of data
- Frees staff from routine tasks
- Supports SAP searches via 2D and 3D preview images, where-used lists, full text and much more
- Highly flexible and adaptable "out of the box" scenarios enable cost-effective prototype and test installations
- No additional user interface: all required processes are executed in the background



Do you Want to Connect EPLAN With 3DEXPERIENCE?

With the **3DEXPERIENCE Connector to EPLAN**, this works very simple. The interface enables direct data exchange between the two systems and in this way, supports the mechatronic product development process. CIDEON develops the integration together with its sister company EPLAN.



Consultancy you can Trust

In addition to CIDEON's comprehensive software expertise in CAD and engineering environments, the company also offers an extensive portfolio of consultancy and best-practice services to achieve success in 3DX - SAP integration projects:

- Analysis and definition of processes for bidirectional data exchange and implementation of standards and use cases for specific projects
- Other SAP PLM products and CIDEON Add-Ons

Integration

Based on standard DS technology, the CIDEON 3DX - SAP interface supports:

- xPDM for 3DX on Premise
- EIF (Enterprise Integration Framework) for 3DX on Cloud

Versions and System Requirements

- SAP ECC 6.0 or SAP S/4HANA
- 3DEXPERIENCE Platform (onPremise/on Cloud)

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