CIDEON

engineering digitized.

Cideon – engineering digitized.

Cideon 3DX SAP Integrations

Data and Process Synchronization Between Dassault Systèmes 3DEXPERIENCE and SAP

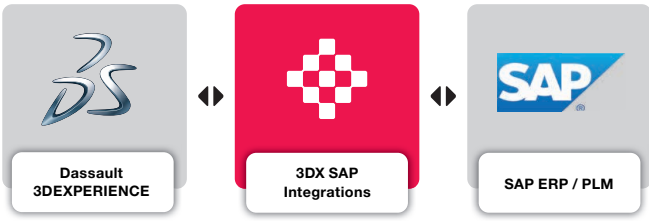
The Dassault 3DEXPERIENCE (3DX) platform enables integrated digital engineering by mapping all PLM processes. In most companies, such a PLM solution must be capable of being integrated into complex IT infrastructures, since a large number of manufacturing and planning processes take place outside the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

The Cideon 3DX SAP Integrations are 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.

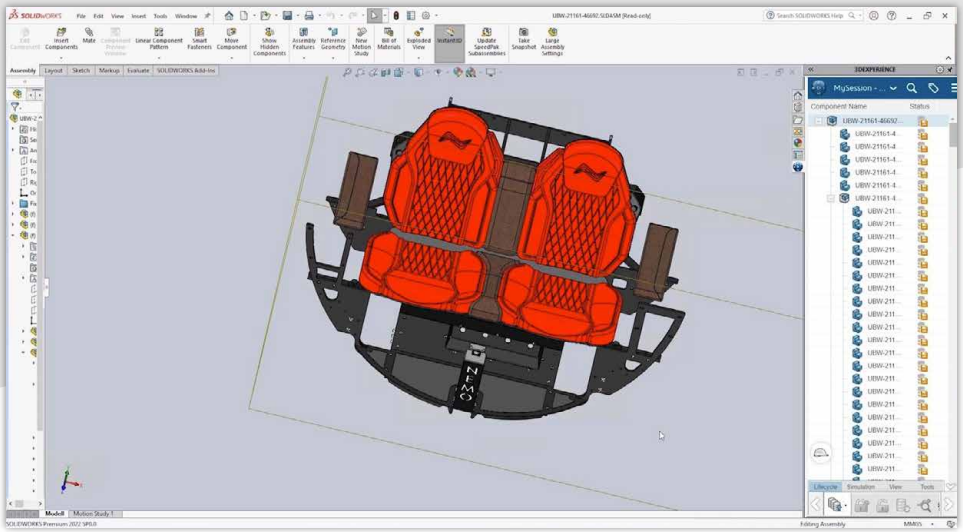
Your Benefits

- Best-in-class features and functions
- Fully automatic, rule-based synchronization
- Future-proof, service-oriented architecture
- Ready for immediate use
- Dassault Systèmes partner product

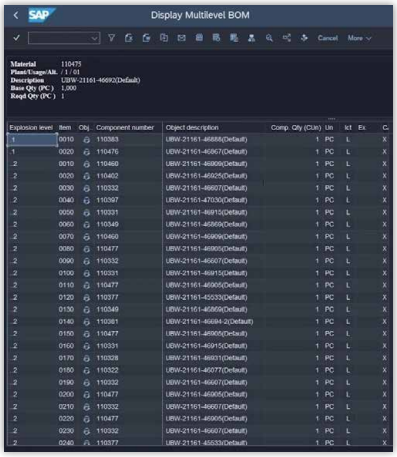


Cideon 3DX SAP Integrations

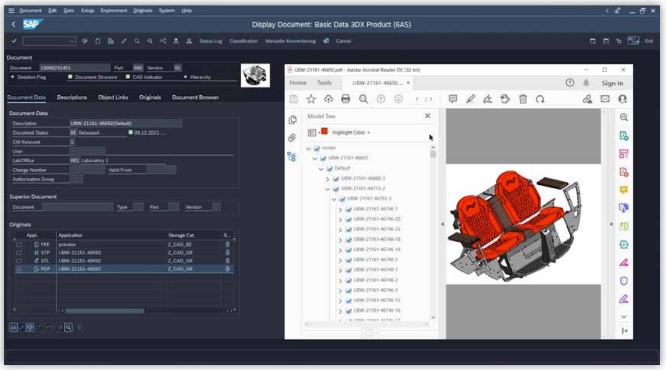
Connecting Worlds



SOLIDWORKS model,
as managed in 3DX



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



SAP Document withattached neutral formats and other synchronized 3DX metadata

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 Integrations. 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 Integrations are Dassault Systèmes partner products to ensure the fully automated exchange of all relevant information between 3DEXPERIENCE and SAP.

Cideon 3DX SAP Integrations

Functional Overview

3DX Objects
- 3D Shape
- Product
- 2D Repre-sentation
- mBOM
- eBOM
- CO/CA
- ...

Cideon Synchronization

3DX ↔ SAP
- Mapping
- Objects
- Metadata

Filter ↔ Control
- Status
- Rule
- Level of maturity
- Attributes

SAP Objects
- DIR
- BOD
- MM
- PSM (IPPE)
- BOM
- ECM
- ...

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 synchroni-zation between the 3DEXPERIENCE platform and SAP
- Mapping of 3DEXPERIENCE data in SAP, map-ping of SAP data in the 3DEXPERIENCE system
- Support of change objects (CO, CA, etc.)
- 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 configu-ration and monitoring
- Support of Cideon Conversion Engine
- Simple and highly user-friendly
- Adaptable and expandable

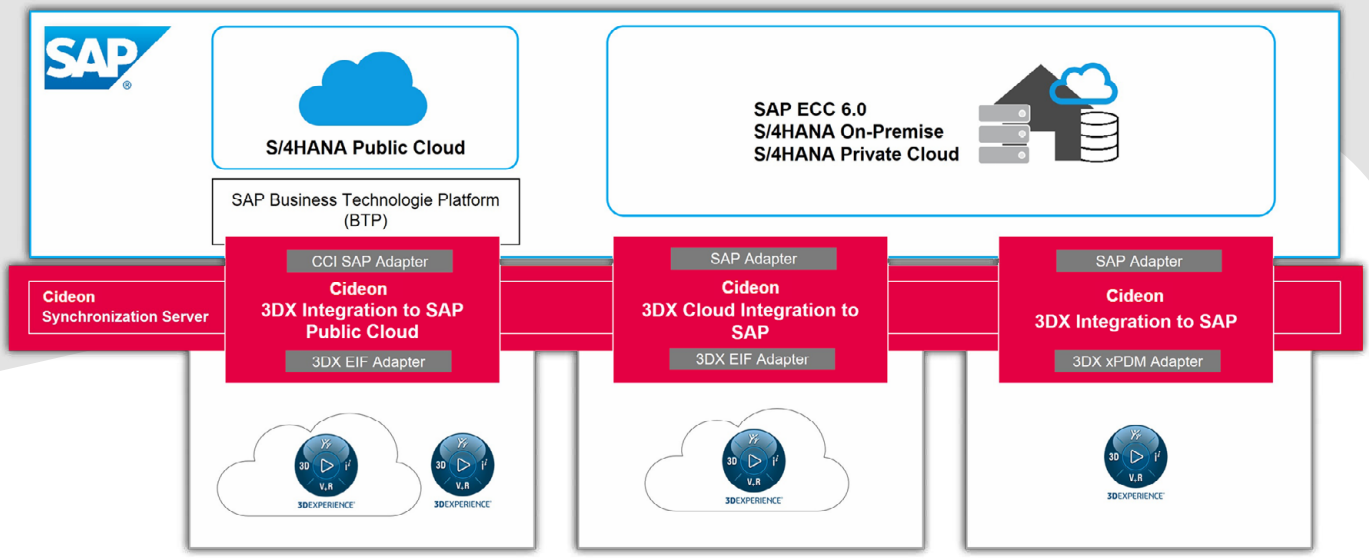
CERTIFIED Gold Product SOLIDWORKS

SOFTWARE PARTNER V6 Partner

SAP Platinum Partner

Cideon 3DX SAP Integrations

Your Benefits of a Connected Ecosystem



Cideon 3DX SAP Integration software products

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 stuff 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

Integration

Based on standard Dassault technology, Cideon offers three different integrations:

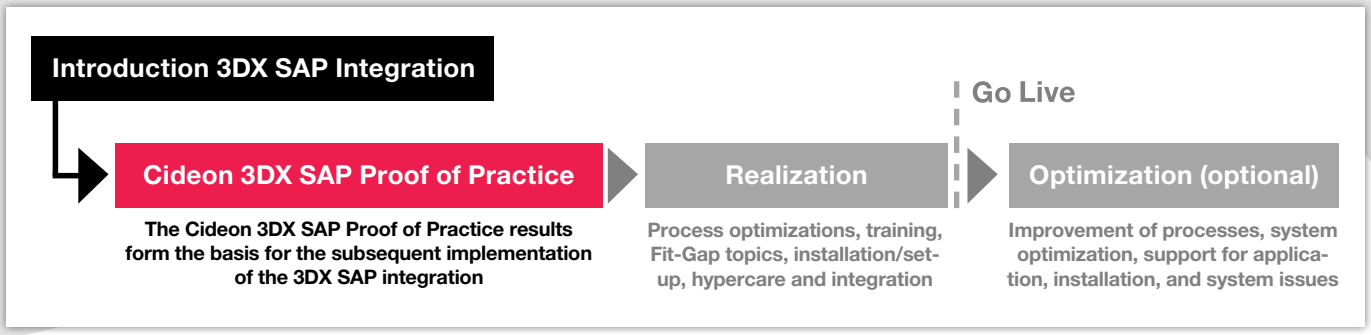
- Cideon 3DX on Premise or on Cloud Integration to SAP Public Cloud
- Cideon 3DX on Cloud Integration to SAP (ECC 6.0, SAP S/4HANA on Premise/Private Cloud)
- Cideon 3DX on Premise Integration to SAP (ECC 6.0, SAP S/4HANA on Premise/Private Cloud)

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.

Cideon – engineering digitized.

Cideon 3DX SAP Proof of Practice



Cideon 3DX SAP Proof of Practice – foundation for your successful 3DX SAP integration introduction

Want to integrate 3DEXPERIENCE with SAP – fast and seamlessly?

The Cideon 3DX SAP Proof of Practice makes implementation simple: preconfigured standards, clear integration concepts, targeted support. Less effort, higher quality, reliable end-to-end processes.

We ensure your success: structured approach, close collaboration with your experts, time savings through Cideon know-how. The result: a working environment to validate your 3DX SAP implementation.

Scope of Services

- Project preparation & management / service delivery
- Kickoff workshop
- Implementation based on Best Practices
- Administrator training
- Support / Hypercare
- Scoping Workshop Fit-Gap analysis
- Presentation of results & documentation
- Cideon Conversion Engine implementation (optional)

Your Benefits

- **Fast project start**
  – fully prepared
- **Predictable effort**
  – measurable results
- **Resource-saving**
  – coordinated pilot phase

SAP Platinum Partner

SOFTWARE PARTNER V6 Partner

© CIDEON Software & Services GmbH & Co. KG; Status: September 2026

CIDEON Software & Services GmbH & Co. KG
Lochhamer Schlag 11 · D-82166 Gräfelfing
Phone +49 (0) 89 909003-0 · Fax +49 (0) 89 909003-250
info@cideon.com · www.cideon.com