



# integrate2 – the efficient connection between ECAD and PLM-Systems

Integrate your ECAD design development process – with the centralized management of native design data and the generation of BOMs, fabrication and assembly data.

## THE CHALLENGES

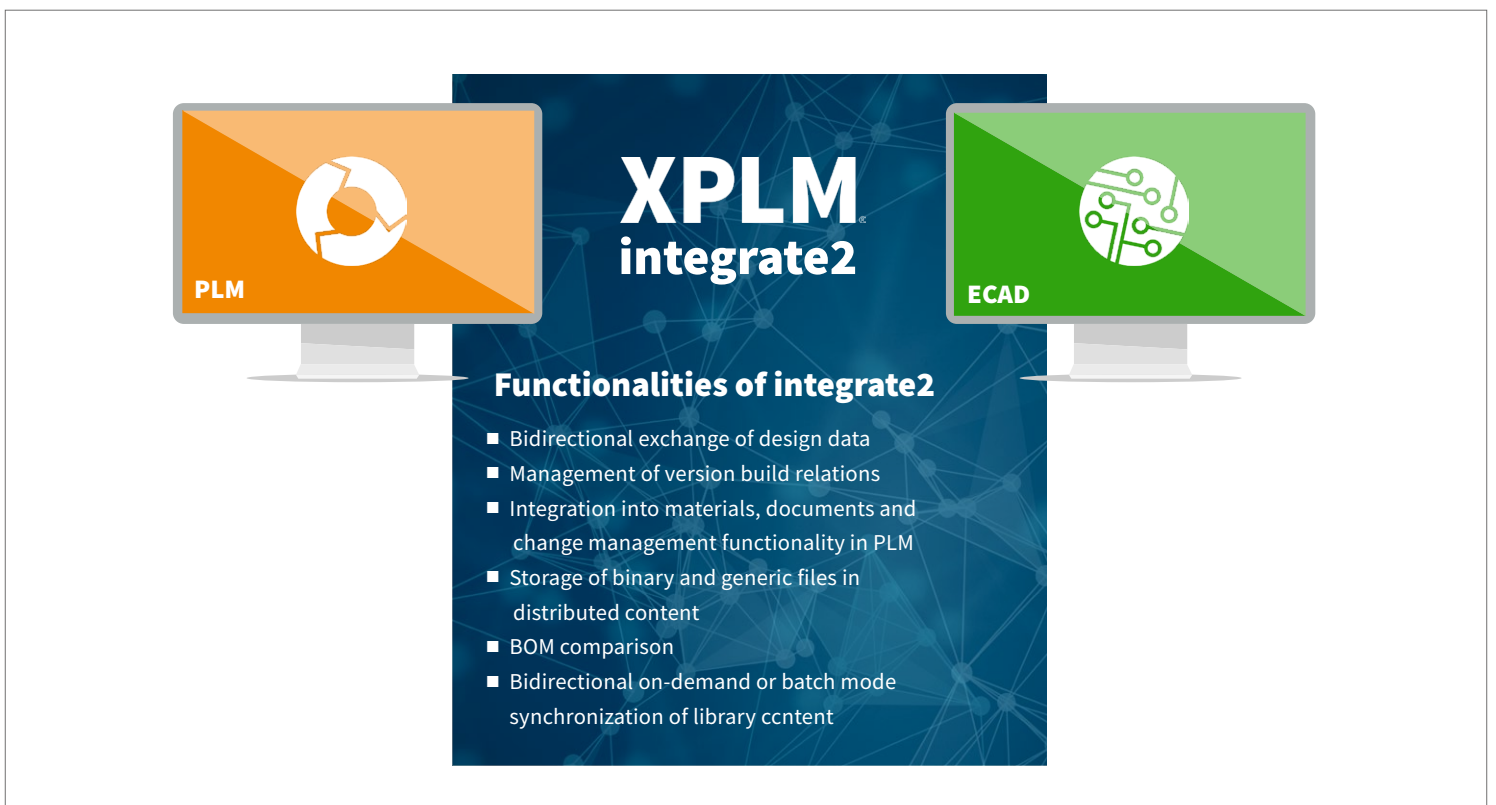
The needs for consistent information flows and processes, and to be able to launch innovative and high-quality products, are just some of the challenges companies face when trying to manage the efficient collaboration of design teams across various locations.

Coupled with the new challenges created for businesses by „digital transformation“ and the prevalence of Industry 4.0 and IoT, firms are increasingly searching for a solution to facilitate cross-disciplinary cooperation in their production of complex products.

## THE SOLUTION

Developed by XPLM, integrate2 enables an integrated approach to connect your ECAD design workflow to the complete product design ecosystem. This allows cross-discipline collaboration across design teams and combines mechanical, electrical, embedded software and electronic design data on a single platform.


Using integrate2 allows for ECAD design data to be managed more consistently, improving efficiency, agility and process reliability and providing engineers a complete view of their product data. Designers can now access, publish and synchronize information without leaving their familiar ECAD design environment. The integrated approach moreover enhances the ability to hit release dates, cost targets, product quality and feature set goals.



MAIN FEATURES

integrate2 manages native ECAD design data and the generated manufacturing data inside PLM by using standardized functionalities:

- Starting new projects with default project templates
- Complete release of projects including automatic creation of fabrication and documentation outputs into PLM
- Automatic population of parameters in drawing frames
- Generation of Bill of Materials including design variants
- Comparison of Bill of Materials during save of the design project
- Check-in and check-out capabilities
- Bidirectional on-demand or batch mode synchronization of library content
- Extensive search capabilities
- Easy linking of data to other PLM objects
- Solid audit trail via status log



Ansys Minerva	Infor PLM Accelerate	PTC Windchill
Aras Innovator	keytech PLM	SAP PLM
Arena PLM	Oracle Agile EDM	Siemens Teamcenter
CONTACT CIM Database	Oracle Agile PLM	SOLIDWORKS PDM Professional
ENOVIA	Oracle PD Cloud	
Infor PLM Discrete	PROCAD PRO.FILE	

AVAILABLE INTEGRATIONS

ECAD ELECTRIC	ECAD ELECTRONIC	ECAD EDM
AutoCAD Electrical	Altium Designer	Altium Concord Pro
ELCAD	Cadence Allegro	Altium Nexus*
Engineering Base	Cadence OrCAD	Cadence Allegro EDM
EPLAN	Mentor PADS	Cadence OrCAD EDM
Mentor Capital	Mentor XPEDITION	Mentor EDM
SOLIDWORKS Electrical*	Pulsonix	Zuken DS E3*
		Zuken DS CR*

\*on request

KEY BENEFITS

- Save time and eliminate errors through consistency in automated data exchange processes and data model
- Avoid redundancy by using a single integrated platform
- Achieve holistic traceability of your product development processes by incorporating ECAD design data into the business processes
- Make design information accessible to users outside the ECAD world
- Enhance collaboration through simplified multisite data exchange
- Prevent duplicate data entry in ECAD library & PLM
- Adapt the integration functionalities to your operational processes
- Shorten your search times to access design data more quickly
- Avoid manual processes

XPLM offers cross-domain integration solutions for PLM, MCAD, ECAD, SysML, ERP, Office, Requirements Management and ALM/ software tools. For more information please contact [marketing@xplm.com](mailto:marketing@xplm.com).

ABOUT XPLM

XPLM is a globally operating PLM solution provider specializing in integrating applications, processes, data and information for optimum cross-domain collaboration between engineers. With its unique portfolio, XPLM integrates leading PLM, MCAD, ECAD, SysML, ERP, Office, Requirements Management and ALM/software tools.

For more information, visit [www.xplm.com](http://www.xplm.com).

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# XPLM Integration Platform – the efficient connection between MCAD and PLM systems

Optimize your development process with the centralized creation and management of BOMs and product-related design data.

## THE CHALLENGES

The needs for consistent information flows and processes, and to be able to launch innovative and high-quality products, are just some of the challenges companies face when trying to manage the efficient collaboration of design teams across various locations.

Coupled with the new challenges created for businesses by digital transformation and the prevalence of Industry 4.0 and IoT, firms are increasingly searching for a solution to facilitate cross-disciplinary cooperation in their production of complex products.

## THE SOLUTION

The XPLM Integration Platform provides efficient and robust PLM integrations for market-leading MCAD applications. The solution is a prerequisite for supporting efficient engineering processes and enhances the collaborative performance across your organization.

While increasing the opportunity for design innovations, data structures in both MCAD and PLM are integrated. The ability of bidirectional exchange of CAD documents, bill of materials, parts, classification and item status is ensured. Early review and collaboration on parts, sub-system and overall product design enables design optimization from every perspective.

The XPLM Integration Platform is fully customizable, easing the challenges of installation and reducing the total cost of ownership and maintenance costs.



MAIN FUNCTIONS

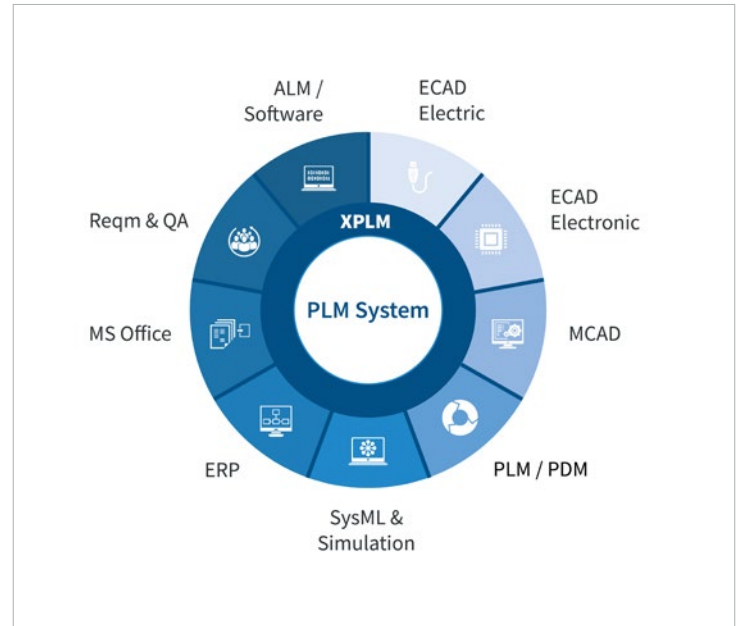
XPLM Integration Platform manages MCAD documents and files, items and bill of materials as well as change and release handling by using standardized functionalities:

- Document and file management
- Management of complex MCAD structures
- Support of all relevant MCAD objects
- Create and Update of items and BOM
- Workflow and release management
- Check-in and check-out from MCAD
- Automatic rename to unique file names
- Take and release ownership
- Management of multiple revisions
- Save preview before final saving
- Search in/load from PLM, directly via MCAD
- Bidirectional exchange of properties
- Update PLM attributes from MCAD
- File conversion (e.g. Viewables)

AVAILABLE INTEGRATIONS

MCAD	
AutoCAD	ME10
Catia V5 / V6	Bentley Microstation
Creo Direct Modeling	Onshape
Creo Parametric	Autodesk Revit
Ideas	Solid Edge
Inventor	Siemens NX
Medusa	SOLIDWORKS

XPLM INTEGRATION SOLUTIONS



KEY BENEFITS

- Interact with the PLM system directly from your MCAD application
- Avoid redundancies by using only one source system
- Save time and eliminate sources of error through automated data exchange processes
- Use standardized XPLM Integration Platform functions and add customer-specific processes at any time
- Benefit from easy extensibility in data and processes
- Achieve complete traceability through your product development process with the XPLM Integration Platform more quickly
- Avoid manual processes

XPLM offers cross-domain integration solutions for PLM, MCAD, ECAD, SysML, ERP, Office, Requirements Management and ALM/ software tools.  
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