

PTC Windchill[®] Workgroup Manager for ECAD

FASTER, EASIER COLLABORATION ON ELECTRICAL PCB DESIGN DATA

Adding electrical computer-aided design (ECAD) data to PTC Windchill creates a full product definition, thus improving collaboration and reducing the chances of error due to incomplete or out-of-date information.

By combining the heterogeneous CAD capabilities of PTC Windchill with our proven ECAD-related tools, you can now capture, control and share complex design information from Cadence, Mentor Graphics, Zuken or Altium within a single enterprise environment – and even within a single product structure.

Key Benefits

Improve collaboration

- Share critical design information throughout both the enterprise and the extended value chain, while still maintaining complete access control
- Facilitate design collaboration and data management via a single, central repository provided by PTC Windchill
- Enable communication between users via centrally available markups

Reduce errors

- Precisely control versions of native ECAD data while reducing the risk of using outdated product information
- Enforce standard design processes
- Optionally eliminate manual spot-checking of ECAD designs

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Authoring Application:	Cadence Allegro PCB Design	Document Category:		ECAD - Board
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Generic:	No	Missing Dependents:		No
Instance:	No	Place Holder		No
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ECAD data can be stored within PTC Windchill PDMLink[®].

Improve engineer efficiency

- Increase the reuse of existing designs
- Eliminate redundant design steps
- Allow individual contributors to review ECAD designs as they become available
- Display board and schematic information with the PTC Windchill Workgroup Manager for ECAD user interface
- Optionally display viewable data generated via the PTC Windchill Workgroup Manager for ECAD user interface



Features

Integral product data management

- Enable non-ECAD application users to access, mark up and collaborate on critical electrical design data
- Manage version-specific Cadence, Mentor Graphics, Zuken or Altium content plus specifications, text documents and any other product-related information to facilitate search and retrieval
- Enable users to organize and manage derived design information, such as artwork, drawings and IDF files within PTC Windchill
- Synchronize the mechanical bill-of-materials (BOM) with the electrical design BOM to eliminate redundancies and errors and provide reports and "where-used" searches
- Generate normalized, lightweight, viewable representations for simple design collaboration within PTC Windchill

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Common configurations are stored and maintained in PTC Windchill.

Configuration management

- Access PTC Windchill directly from within the ECAD application menu while providing versioning and iteration management
- Enable check-in and check-out of latest configurations
- Share electrical data across different "contexts" (e.g., products, libraries and projects) within PTC Windchill for true collaboration in an accesscontrolled environment
- Achieve direct integration with the process management capabilities of PTC Windchill, such as change management and product release processes
- Revise electrical design data managed in PTC Windchill directly from within the PTC Windchill Workgroup Manager interface

Extensibility

- Apply extensive customization tools to execute any customer-defined processes, such as design simulation and data cleanup
- Consolidate BOM creation and work with a "clean" BOM in the PTC Windchill environment
- Work within a common user interface that supports multiple ECAD authoring solutions
- Extract single or variant BOM from design data and publish to PTC Windchill
- Provide notification to users of valid design data that resides on their desktop



Support for PCB Tools

The end result of the PCB design process is a set of manufacturing files that get sent to a PCB manufacturer. This data is derived from the PCB design tools and is a vital element of the PCB design release to manufacturing process. To support this process, PTC also offers as a separate option PTC Windchill Workgroup Managers for PCB related tools such as CAM350 and BluePrint-PCB. This allows customers to:

- Easily manage PCB fabrication data within PTC Windchill
- Provide support for common PCB design release and manufacturing processes
- Validate that design data meets fabrication requirements
- Support the generation of files and documentation to create physical PCBs
- Automatically implement and identify ECO changes into a released PCB design
- Distribute data to downstream processes that focus on building the finished PCB

Platform specifications

- Prerequisite: PTC Windchill PDMLink, PTC Windchill ProjectLink™
- Server Operating Systems
 - Microsoft Windows®: Windows 2003 Server (32-bit and 64-bit)
 - Unix[®]: Solaris, HP-UX, AIX
 - Linux (64-bit): Red Hat Enterprise® Linux 4
- Client Operating Systems
 - Microsoft Windows: XP, 2000, Windows 7
- Browser: Internet Explorer[®], Mozilla Firefox[®]
- Database: Oracle® 11 and SQL Server® 2008
- Languages: English

For the most up-to-date platform support information, visit: **PTC.com**/partners/hardware/current/support.htm

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