PTC®

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creates a full product definition, thus improving collaboration and reducing the chances of error due to incomplete or out-of-date information.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.
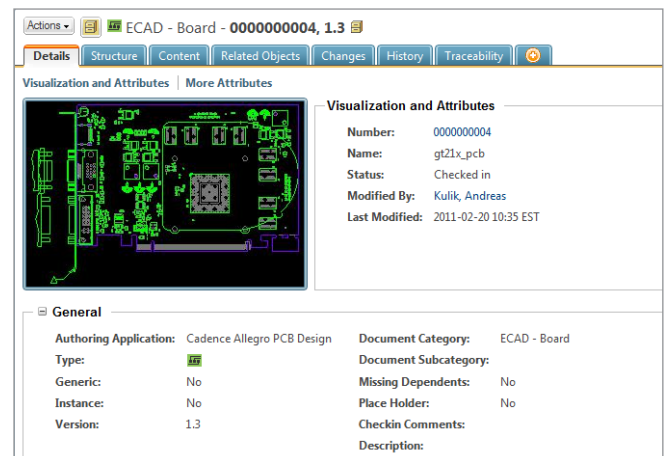
Key Benefits

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- Precisely control versions of native ECAD data while reducing the risk of using outdated product information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

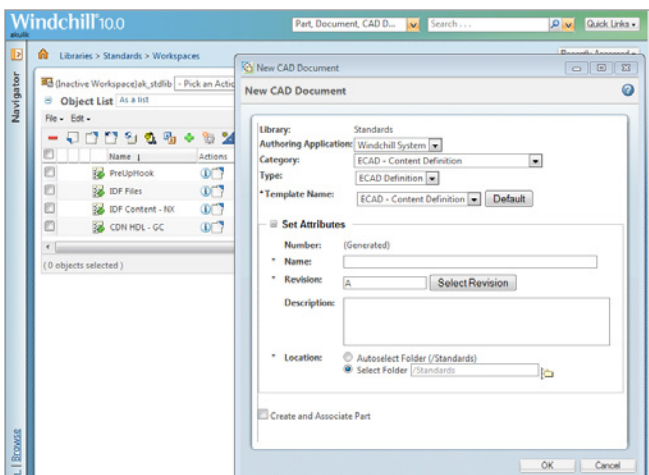ECAD data can be stored within PTC Windchill PDMLink®.

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

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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

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 access-controlled 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