Library Data Management
Xpedition Enterprise

Overview

Intellectual property and reuse management have proven to be key differentiators for today's best-in-class companies. Xpedition® library management tools provide powerful component, library, and reuse management capabilities within the Xpedition design flow to help manage this critical IP.

As an integral part of the Mentor® PCB design flow, Xpedition library tools provide significant return on investment by offering a range of built-in functionality for managing component information, EDA view editing, and design part list management. Combining all this data with a component research engine built specifically for electronic engineers provides unique value to the design community.

The scalability of Xpedition library management tools allows simple quick-start solutions for best-practice libraries that can be readily expanded to complex enterprise systems with business and supply-chain management systems integration.

Based on the Common Xpedition Infrastructure

The data structures and server environment are administered by a common web environment. This infrastructure enables management of all data created, imported, or released from the Xpedition design flow, including libraries. The architecture is very extensible, allowing for expanded support based on new and growing design process requirements. All data management applications utilize this infrastructure, providing single sign-on, common user administration, data access control, data encryption options, and security.

The Xpedition Library Cockpit, the central hub for the librarian desktop.

MAJOR BENEFITS:

- Reduces infrastructure cost by managing all corporate libraries in one central environment
- Improves overall design quality through use-approved, validated library components
- Increases engineering efficiency by reducing component research time up to 35%
- Ensures ECAD library integrity with built-in automation and checks
- Reduces respin costs with integrated life cycle and compliance considerations early in the design process
- Scalable from small workgroup library and component services through global enterprise needs with common user paradigm

MAJOR FEATURES:

- Centralized cockpit for creating and managing PCB Library data
- Simple-to-advanced queries to find wanted parts want quickly
- Part preview for symbols and cells; easy access to part documentation
- Part compare for quick decisions
- Integrated 3D model management
- Parts compliance rating options
- On-line part requests with part creation and approval tools
- Optional integration to online data sources such as IHS
- BOM management for designers
- Part distribution features for multi-site environments

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Summary

The library management tools capture and manage all library and related component data for engineers to draw from while completing their designs within the Xpedition flow. These tools can bring in critical component data, such as cost and lead time, from across disparate systems in the enterprise, making it easier for engineers to accurately select the best parts during the most critical design phase. The tools also provide advanced librarian capabilities for the creation of symbols and cells to drive the PCB design process, as well as integration with Mentor 3D modeling tools for inclusion of 3D models.

Designers and librarians can collaborate using an integrated part request process, with easy web access to initiate and monitor progress of requests, add attachments, and integrate external data sources like IHS.

The library data management tools provide unique value with an integrated ECAD library and component management environment that is tightly connected with the design flow.

Xpedition library management tools will have engineers up and running quickly, with minimal deployment effort and little-to-no-need for customization. Xpedition library tools:

- Create and distribute ECAD libraries
- Manage ECAD component data
- Work in a fully integrated design-flow process
- Ensure safe, secure data sharing across the enterprise

Xpedition provides a complete data management solution supporting all stages of PCB design and library management.