Cross-Functional Bill of Material Management Solution

MANAGING BILL OF MATERIALS FROM AS-DESIGNED TO AS-BUILT SERVICES

The solution enables:

- Over a single platform, BOM management across the product lifecycle from as-designed to as-built/serviced

- Real-time collaboration between all engineering design disciplines (mechanical, electrical, software).

- Easy access to global part libraries for standardization and re-use

- "New Part Request" implementation processes, allowing all product development stakeholders to participate

- End-to-end product IP and BOM traceability from design to manufacturing and services functions

- Parts usage and change impact analysis across the enterprise using powerful "where-used" capabilities

- Optimized BOMs for materials compliance and other parameters early in the product development phase while change costs are low
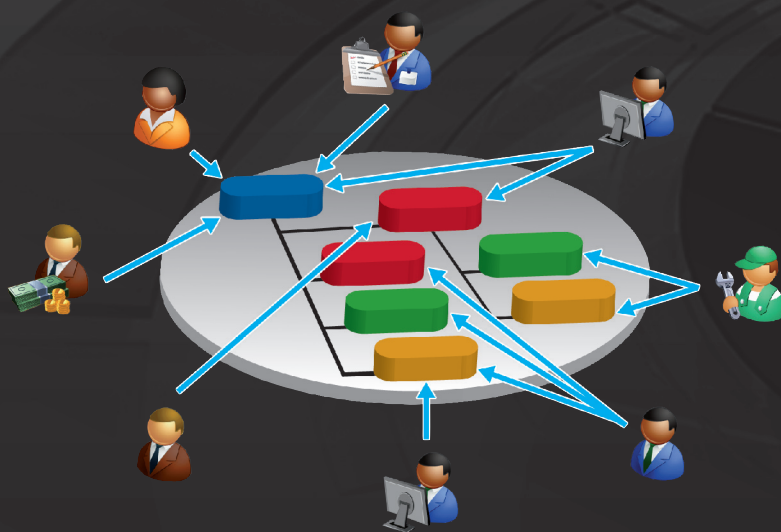
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GEOGRAPHICAL SYNCHRONIZATION

Managing product intellectual property (IP) and bill of materials (BOMs) throughout the product lifecycle is even more critical in today's competitive business environment. Design, testing, manufacturing and services processes, which are often conducted in different sites scattered geographically, must all be synchronized to allow for end-to-end traceability needed for issue resolution. To support a "Design Anywhere, Manufacture Anywhere, Service Anywhere" (DAMASA) business model, High-Tech companies need a solution which offers out-of-the-box functionalities that enhance the company's adaptability to ever-changing business models and market drivers.

The Cross Functional Bill of Material Management solution includes:

- BOM configuration management
- Part alternate/substitute management
- BOM grading/analysis
- New part request and development
- BOM change and effectivity management

Cross-Functional Bill of Material Management Solution Overview

Dassault Systèmes V6 solution for Cross-Functional Bill of Material Management delivers a single collaboration platform to handle BOM management across the product lifecycle, from as-designed, as-manufactured, as-planned to as-built phases. The solution gives globally dispersed High-Tech organizations 24/7 access to BOM and other product development activities. By standardizing product development processes across diverse organizational teams and the supply-chain, users can globally implement best practices to maximize efficiency, cost, quality, and delivery. In addition, global part reuse and standardization assures optimization across product management, design, manufacturing, and procurement processes.

Facilitates integrations to most popular design tools

Dassault Systèmes V6 solution for Cross-Functional Bill of Material Management manages product development data and business processes in support of the DAMASA business model. The V6 highly scalable platform supports the ability to distribute and replicate product design data across a global network, allowing teams to collaborate more efficiently. When used in conjunction with the Collaborative Mechatronics Engineering solution, the Cross-Functional BOM Management solution also facilitates integrations to the most popular mechanical, electronics, and software design tools. The integrations enable the automatic capture and synchronization of product design IP and engineering bills of material (EBOMs) across engineering disciplines with varying authoring tools. This capability significantly reduces and even eliminates errors associated with poor collaboration and hand-offs. Moreover, it enables High-Tech companies to implement engineering change management processes faster and more confidently than ever before.

Global part libraries

With this solution, design teams can easily access global part libraries across locations, product lines and engineering disciplines

for standardizing components and optimizing BOMs for cost, quality, and location preferences. Easily create New Part Requests for new parts as needed in design —with full participation from all stakeholders across the organization. Powerful "Where-Used" capabilities allow for the analysis of part usage and change impact across the enterprise. Alternate and substitute parts can be identified in the context of any BOMs to allow for manufacturing or sourcing options as required. In addition, BOM comparison capabilities allow BOMs and Approved Vendor Lists (AVLs) to be optimized efficiently.

Raise and resolve issues related to BOMs

When used in conjunction with the Issue, Defect and Change Management solution, the Cross-Functional BOM Management solution offers a single integrated platform that enables High-Tech organizations to raise and resolve issues related to BOMs from any geographic location or any role in the organization. The Dassault Systèmes V6 solution provides robust change management capabilities that utilize formal change processes where required via Engineering Change Requests (ECRs), Engineering Change Orders (ECOs), Manufacturing Change Orders (MCOs) or any other type of formal change request.

End-to-end issue BOM and IP management strategy

The Cross Functional BOM Management solution provides High-Tech companies with an end-to-end issue BOM and IP management strategy and solution for all stakeholders across the enterprise. Now control access to BOMs and IP so that even customers or suppliers and co-development partners can be a part of the BOM work-in-process (WIP), release, and management process. The full participation from the suppliers and customers as required in the development process, and the out-of-the-box automated workflow change processes, reduce the quantity and cycle times of the change management processes related to BOMs.

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