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ANALYTICS

ENOVIA X-BOM Cost Analytics

ENOVIA® X-BOM Cost Analytics provides manufacturing companies the ability to estimate, track, and manage product costs very early in the product lifecycle. It enables cost analysts, engineers, and buyers to analyze engineering bills-of-material (EBOMs) using standard or actual costs for existing parts and estimated or quoted costs for new or modified parts. This helps organizations implement a design-to-cost methodology for their new product introduction (NPI) process. It enables cross-functional teams from engineering, finance, and purchasing to understand and analyze their standard product costs, costs of change, cost targets and expected margins early in the NPI process. The net result is improved product margins and enterprise profitability.

Key Benefits

- Identify opportunities for cost savings earlier in the product lifecycle and drive them to the bottom line faster
- Make better product decisions by understanding the cost impact of change during early product design phase
- Perform product cost and margin analysis with higher confidence level compared to manual methods

Product Overview

ENOVIA X-BOM Cost Analytics enables companies to create a competitive advantage by addressing key "design to cost" business challenges including:

- Providing a model for standard product cost drivers
- Discovering opportunities to reduce product cost and improve margins
- Calculating the cost impact of change early in product design
- Quickly identifying EBOM cost problems

Product Highlights

ENOVIA X-BOM Cost Analytics provides manufacturing companies with an enterprise solution to implement a design-to-cost strategy. Cross functional teams from engineering, finance and purchasing work collaboratively to understand and analyze their standard product costs, costs of change, cost targets and expected margins early during the new product introduction (NPI) process.

Key features and capabilities include:

Cost Template Management

- Configure cost breakdown attributes in standard cost templates for different cost types
- Manage various categories and mandatory or optional attributes
- Define formulas for item or total roll-up calculation costs
- Define currency conversion lookup tables with effective dates
- Edit and revise cost templates and track modifications to the templates

Create NPI BOM Scenarios

Cost analysts can import and create BOMs to analyze "what if" scenarios using a spreadsheet template. Users may create several different BOM configurations for comparing different scenarios.

Entering Cost Information

Based on the configured cost elements, cost analysts may add detailed costs for a collection of parts in a product. A part may have multiple cost elements unique to a company location or site.

Users can update many cost entries at once using spreadsheet templates with validation rules. These cost details may come from internal manufacturing systems for "Make" items and from purchasing systems for the "Buy" items. In addition, Manufacturing Equivalent Parts (MEPs) can have cost data associated and included in Approved Vendor List (AVL) EBOM reports. An MEP is a supplier purchased part, which is qualified to be equivalent to the specifications of the OEM enterprise part.

Search Parts by Cost Thresholds

Users can perform advanced searches to find or list parts that may not have any costs defined for a certain location or meet certain cost criteria. This capability enables users to enter information that is more accurate and identify areas that require cost updates.

EBOM Cost Roll-ups

Cost analysts can create reports that navigate the BOM hierarchy and roll-up costs based on preferences such as currency, effective period for currencies, and location. Configurable settings are used to run reports in the background, thus freeing up the user to continue working online. ENOVIA notifies users by email when the reports are complete and URL links are available for quick access. The cost roll-up process identifies part cost data errors and generates a separate file for subsequent processing by the user.

Cost-of-Change Analysis

Cost analysts can create, analyze, and audit delta costs during the engineering change process. Understanding the cost of change enables the cost analyst to create impact reports based on costing options and location early in the product lifecycle. This enables the organization to benefit from quicker and more profitable decision making during the engineering change process.

Reports

Cost analysts can compare the changing costs and trends for an evolving BOM during the NPI process. This enables them to track why and how the costs for a specific product have changed over time and extract general organizational cost trends over the longer term. Reports available to analyze product costs at any level of the BOM structure include:

- Item cost breakdown
- Item total cost driver
- Currency split report
- Target costs vs. calculated costs report
- AVL BOM report
- Cost history report.

The Role of ENOVIA V6 and PLM 2.0

ENOVIA X-BOM Cost Analytics supports PLM 2.0, product lifecycle management online for everyone, and the ENOVIA V6 values: global collaboration innovation, single PLM platform for intellectual property (IP) management, online creation and collaboration, ready to use PLM business processes, and lower cost of ownership.

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